

BUREAU OF LAND MANAGEMENT
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FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. COC 66370
5b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator Dejour Energy (USA) Corporation		7. If Unit or CA Agreement, Name and No.
3a. Address 1401 Seventeenth Street, Suite 1000 Denver, Colorado 80202	3b. Phone No. (include area code) 303-296-3535	8. Lease Name and Well No. PWD Federal 21-6-91
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 1782' FEL, 791' FSL; SWSE, Section 21, T6S, R91W, 6th PM At proposed prod. zone 2668' FEL, 657' FSL; SWSE, Section 21, T6S, R91W, 6th PM		9. API Well No.
14. Distance in miles and direction from nearest town or post office* 7 miles to Silt, Colorado		10. Field and Pool, or Exploratory Kokopelli
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 657' FSL	16. No. of acres in lease 680 acres	11. Sec., T. R. M. or Blk. and Survey or Area Section 21, T6S, R91W, 6th PM
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 668' to off pad well Other wells on same pad	19. Proposed Depth 9054' MD	12. County or Parish Garfield County
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7008' proposed pad elevation	22. Approximate date work will start* 01/07/2012	13. State CO
17. Spacing Unit dedicated to this well		
20. BLM/BIA Bond No. on file COB000239		
23. Estimated duration 2 weeks		
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature	Name (Printed/Typed) Gary Haefele	Date 11/14/2011
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Title
Operations Manager

Approved by (Signature)	Name (Printed/Typed) Allen B. Crockett, Ph.D.	Date MAY 08 2012
Title Supervisory Natural Resource Specialist	Office Colorado River Valley Field Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

Conditions of Approval Attached

APPROVAL TO FLARE GRANTED
WHILE DRILLING AND TESTING

APD approved not
to exceed 2 years

Attachment A
Conditions of Approval
DOI-BLM-CO-2012-0025-CX (390)

SURFACE-USE CONDITIONS OF APPROVAL

STANDARD COAs APPLICABLE TO ALL ACTIVITIES WITHIN THE DEJOUR MDP AREA

The following standard surface use COAs are in addition to all stipulations attached to the respective Federal leases and to any site-specific COAs for individual well pads. Wording and numbering of these COAs may differ from those included in the DMDP. In cases of discrepancies, the following COAs supersede earlier versions.

1. Administrative Notification. The operator shall notify the BLM representative at least 48 hours prior to initiation of construction. If requested by the BLM representative, the operator shall schedule a pre-construction meeting, including key operator and contractor personnel, to ensure that any unresolved issues are fully addressed prior to initiation of surface-disturbing activities or placement of production facilities.
2. Road Construction and Maintenance. Roads shall be crowned, ditched, surfaced, drained with culverts and/or water dips, and constructed to BLM Gold Book standards. Initial gravel application shall be a minimum of 6 inches. The operator shall provide timely year-round road maintenance and cleanup on the access roads. A regular schedule for maintenance shall include, but not be limited to, blading, ditch and culvert cleaning, road surface replacement, and dust abatement. When rutting within the traveled way becomes greater than 6 inches, blading and/or gravelling shall be conducted as approved by the BLM.
3. Dust Abatement. The operator shall implement dust abatement measures as needed to prevent fugitive dust from vehicular traffic, equipment operations, or wind events. The BLM may direct the operator to change the level and type of treatment (watering or application of various dust agents, surfactants, and road surfacing material) if dust abatement measures are observed to be insufficient to prevent fugitive dust.
4. Drainage Crossings and Culverts. Construction activities at perennial, intermittent, and ephemeral drainage crossings (e.g. burying pipelines, installing culverts) shall be timed to avoid high flow conditions. Construction that disturbs any flowing stream shall utilize either a piped stream diversion or a cofferdam and pump to divert flow around the disturbed area.

Culverts at drainage crossings shall be designed and installed to pass a 25-year or greater storm event. On perennial and intermittent streams, culverts shall be designed to allow for passage of aquatic biota. The minimum culvert diameter in any installation for a drainage crossing or road drainage shall be 24 inches. Crossings of drainages deemed to be jurisdictional waters of the U.S. pursuant to Section 404 of the Clean Water Act may require additional culvert design capacity. Due to the flashy nature of area drainages and anticipated culvert maintenance, the U.S. Army Corps of Engineers (USACE) recommends designing drainage crossings for the 100-year event. Contact the USACE Colorado West Regulatory Branch at 970-243-1199 ext. 17.

Pipelines installed beneath stream crossings shall be buried at a minimum depth of 4 feet below the channel substrate to avoid exposure by channel scour and degradation. Following burial, the channel grade and substrate composition shall be returned to pre-construction conditions.

5. Jurisdictional Waters of the U.S. The operator shall obtain appropriate permits from the U.S. Army Corps of Engineers (USACE) prior to discharging fill material into waters of the U.S. in accordance with Section 404 of the Clean Water Act. Waters of the U.S. are defined in 33 CFR Section 328.3 and may include wetlands as well as perennial, intermittent, and ephemeral streams. Permanent impacts to waters of the U.S. may require mitigation. Contact the USACE Colorado West Regulatory Branch at 970-243-1199 ext. 17. Copies of any printed or emailed approved USACE permits or verification letters shall be forwarded to the BLM.
6. Wetlands and Riparian Zones. The operator shall restore temporarily disturbed wetlands or riparian areas. The operator shall consult with the BLM Colorado River Valley Field Office to determine appropriate mitigation, including verification of native plant species to be used in restoration.
7. Reclamation. The goals, objectives, timelines, measures, and monitoring methods for final reclamation of oil and gas disturbances are described in Appendix I (Surface Reclamation) of the 1998 Draft Supplemental EIS (DSEIS). Specific measures to follow during interim and temporary (pre-interim) reclamation are described below.
 - a. Reclamation Plans. In areas that have low reclamation potential or are especially challenging to restore, reclamation plans will be required prior to APD approval. The plan shall contain the following components: detailed reclamation plans, which include contours and indicate irregular rather than smooth contours as appropriate for visual and ecological benefit; timeline for drilling completion, interim reclamation earthwork, and seeding; soil test results and/or a soil profile description; amendments to be used; soil treatment techniques such as roughening, pocking, and terracing; erosion control techniques such as hydromulch, blankets/matting, and wattles; and visual mitigations if in a sensitive VRM area.
 - b. Deadline for Interim Reclamation Earthwork and Seeding. Interim reclamation to reduce a well pad to the maximum size needed for production, including earthwork and seeding of the interim reclaimed areas, shall be completed within 6 months following completion of the last well planned to be drilled on that pad as part of a continuous operation. If a period of greater than one year is expected to occur between drilling episodes, BLM may require implementation of all or part of the interim reclamation program.

Reclamation, including seeding, of temporarily disturbed areas along roads and pipelines, and of topsoil piles and berms, shall be completed within 30 days following completion of construction. Any such area on which construction is completed prior to December 1 shall be seeded during the remainder of the early winter season instead of during the following spring, unless BLM approves otherwise based on weather. If road or pipeline construction occurs discontinuously (e.g., new segments installed as new pads are built) or continuously but with a total duration greater than 30 days, reclamation, including seeding, shall be phased such that no portion of the temporarily disturbed area remains in an unreclaimed condition for longer than 30 days. BLM may authorize deviation from this requirement based on the season and the amount of work remaining on the entirety of the road or pipeline when the 30-day period has expired.

If requested by the project lead NRS for a specific pad or group of pads, the operator shall contact the NRS by telephone or email approximately 72 hours before reclamation and reseeding begin. This will allow the NRS to schedule a pre-reclamation field visit if needed to ensure that all parties are in agreement and provide time for adjustments to the plan before work is initiated.

The deadlines for seeding described above are subject to extension upon approval of the BLM based on season, timing limitations, or other constraints on a case-by-case basis. If the BLM approves an extension for seeding, the operator may be required to stabilize the reclaimed surfaces using hydromulch, erosion matting, or other method until seeding is implemented.

- c. Topsoil Stripping, Storage, and Replacement. All topsoil shall be stripped following removal of vegetation during construction of well pads, pipelines, roads, or other surface facilities. In areas of thin soil, a minimum of the upper 6 inches of surficial material shall be stripped. The BLM may specify a stripping depth during the onsite visit or based on subsequent information regarding soil thickness and suitability. The stripped topsoil shall be stored separately from subsoil or other excavated material and replaced prior to final seedbed preparation. The BLM best management practice (BMP) for the Windrowing of Topsoil (COA number 19) shall be implemented for well pad construction whenever topography allows.
- d. Seedbed Preparation. For cut-and-fill slopes, initial seedbed preparation shall consist of backfilling and recontouring to achieve the configuration specified in the reclamation plan. For compacted areas, initial seedbed preparation shall include ripping to a minimum depth of 18 inches, with a maximum furrow spacing of 2 feet. Where practicable, ripping shall be conducted in two passes at perpendicular directions. Following final contouring, the backfilled or ripped surfaces shall be covered evenly with topsoil.

Final seedbed preparation shall consist of scarifying (raking or harrowing) the spread topsoil prior to seeding. If more than one season has elapsed between final seedbed preparation and seeding, and if the area is to be broadcast-seeded or hydroseeded, this step shall be repeated no more than 1 day prior to seeding to break up any crust that has formed.

If directed by the BLM, the operator shall implement measures following seedbed preparation (when broadcast-seeding or hydroseeding is to be used) to create small depressions to enhance capture of moisture and establishment of seeded species. Depressions shall be no deeper than 1 to 2 inches and shall not result in piles or mounds of displaced soil. Excavated depressions shall not be used unless approved by the BLM for the purpose of erosion control on slopes. Where excavated depressions are approved by the BLM, the excavated soil shall be placed only on the downslope side of the depression.

If directed by the BLM, the operator shall conduct soil testing prior to reseeding to identify if and what type of soil amendments may be required to enhance revegetation success. At a minimum, the soil tests shall include texture, pH, organic matter, sodium adsorption ratio (SAR), cation exchange capacity (CEC), alkalinity/salinity, and basic nutrients (nitrogen, phosphorus, potassium [NPK]). Depending on the outcome of the soil testing, the BLM may require the operator to submit a plan for soil amendment. Any requests to use soil amendments not directed by the BLM shall be submitted to the CRVFO for approval.

Seedbed preparation is not required for topsoil storage piles or other areas of temporary seeding.

- e. Seed Mixes. A seed mix consistent with BLM standards in terms of species and seeding rate for the specific habitat type shall be used on all BLM lands affected by the project (see Attachments 1 and 2 of the letter provided to operators dated May 1, 2008). Note that temporary seeding no longer allows the use of sterile hybrid non-native species.

For private surfaces, the menu-based seed mixes are recommended, but the surface landowner has ultimate authority over the seed mix to be used in reclamation. The seed shall contain no noxious, prohibited, or restricted weed seeds and shall contain no more than 0.5 percent by weight of other weed seeds. Seed may contain up to 2.0 percent of "other crop" seed by weight, including the seed of other agronomic crops and native plants; however, a lower percentage of other crop seed is recommended. Seed tags or other official documentation shall be submitted to BLM at least 14 days before the date of proposed seeding for acceptance. Seed that does not meet the above criteria shall not be applied to public lands.

- f. Seeding Procedures. Seeding shall be conducted no more than 24 hours following completion of final seedbed preparation.

Where practicable, seed shall be installed by drill-seeding to a depth of 0.25 to 0.5 inch. Where drill-seeding is impracticable, seed may be installed by broadcast-seeding at twice the drill-seeding rate, followed by raking or harrowing to provide 0.25 to 0.5 inch of soil cover or by hydroseeding and hydromulching. Hydroseeding and hydromulching shall be conducted in two separate applications to ensure adequate contact of seeds with the soil.

If interim revegetation is unsuccessful, the operator shall implement subsequent reseeding until interim reclamation standards are met.

- g. Mulch. Mulch shall be applied within 24 hours following completion of seeding. Mulch may consist of either hydromulch or of certified weed-free straw or certified weed-free native grass hay crimped into the soil.

NOTE: Mulch is not required in areas where erosion potential mandates use of a biodegradable erosion-control blanket (straw matting).

- h. Erosion Control. Cut-and-fill slopes shall be protected against erosion with the use of water bars, lateral furrows, or other measures approved by the BLM. Cut-and-fill slopes along drainages or in areas with high erosion potential shall also be protected from erosion using hydromulch designed specifically for erosion control or biodegradable blankets/matting, bales, or wattles of weed-free straw or weed-free native grass hay. A well-anchored fabric silt fence shall also be placed at the toe of cut-and-fill slopes along drainages or to protect other sensitive areas from deposition of soils eroded off the slopes. Additional BMPs shall be employed as necessary to reduce soil erosion and offsite transport of sediments.
- i. Site Protection. The pad shall be fenced to BLM standards to exclude livestock grazing for the first two growing seasons or until seeded species are firmly established, whichever comes later. The seeded species will be considered firmly established when at least 50 percent of the new plants are producing seed. The BLM will approve the type of fencing.
- j. Monitoring. The operator shall conduct annual monitoring surveys of all sites categorized as "operator reclamation in progress" and shall submit an annual monitoring report of these sites to the BLM by **December 31** of each year. The monitoring program shall use the four Reclamation Categories defined in Appendix I of the 1998 DSEIS to assess progress toward reclamation objectives. The annual report shall document whether attainment of reclamation objectives appears likely. If one or more objectives appear unlikely to be achieved, the report shall identify appropriate corrective actions. Upon review and approval of the report by the BLM, the operator

shall be responsible for implementing the corrective actions or other measures specified by the BLM.

8. Weed Control. The operator shall regularly monitor and promptly control noxious weeds or other undesirable plant species as set forth in the Glenwood Springs Field Office *Noxious and Invasive Weed Management Plan for Oil and Gas Operators*, dated March 2007. A Pesticide Use Proposal (PUP) must be approved by the BLM prior to the use of herbicides. Annual weed monitoring reports shall be submitted to BLM by **December 1**.
9. Big Game Winter Range Timing Limitation. To minimize impacts to wintering big game, no construction, drilling or completion activities shall occur during a Timing Limitation (TL) period from **December 1 to April 30 annually**.
10. Bald and Golden Eagles. It shall be the responsibility of the operator to comply with the Bald and Golden Eagle Protection Act (Eagle Act) with respect to “take” of either eagle species. Under the Eagle Act, “take” includes to pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest and disturb. “Disturb” means to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available, (1) injury to an eagle; (2) a decrease in its productivity by substantially interfering with normal breeding, feeding, or sheltering behavior; or (3) nest abandonment by substantially interfering with normal breeding, feeding, or sheltering behavior. Avoidance of eagle nest sites, particularly during the nesting season, is the primary and preferred method to avoid a take. Any oil or gas construction, drilling, or completion activities planned within 0.5 mile of a bald or golden eagle nest, or other associated activities greater than 0.5 miles from a nest that may disturb eagles, should be coordinated with the BLM project lead and BLM wildlife biologist and the USFWS representative to the BLM Field Office (970-876-9051).
11. Raptor Nesting. Raptor nest surveys in the project vicinity resulted in the location of one or more raptor nest structures within 0.25 mile of a well pad or 0.125 mile of an access road, pipeline, or other surface facility. To protect nesting raptors, a 60-day Timing Limitation (TL) shall be applied to construction, drilling, or completion activities within the buffer widths specified above, if the activities would be initiated during the nesting period of **May 1 to July 1**. An exception to this TL may be granted for any year in which a subsequent survey determines one of the following: (a) the nest is in a severely dilapidated condition or has been destroyed due to natural causes, (b) the nest is not occupied during the normal nesting period for that species, (c) the nest was occupied but subsequently failed due to natural causes, or (d) the nest was occupied, but the nestlings have fledged and dispersed from the nest. If project-related activities are initiated within the specified buffer distance of any active nest, even if outside the 60-day TL period, the operator remains responsible for compliance with the MBTA with respect to a “take” of birds or of active nests (those containing eggs or young), including nest failure caused by human activity (see COA for Migratory Birds).
12. Migratory Birds. It shall be the responsibility of the operator to comply with the Migratory Bird Treaty Act (MBTA) with respect to “take” of migratory bird species, which includes injury and direct mortality resulting from human actions not intended to have such result. To minimize the potential for the take of a migratory bird, the operator shall take reasonable steps to prevent use by birds of fluid-containing pits associated with oil or gas operations, including but not limited to reserve pits, produced-water pits, hydraulic fracturing flowback pits, evaporation pits, and cuttings trenches. Liquids in these pits—whether placed or accumulating from precipitation—may pose a risk to birds as a result of ingestion, absorption through the skin, or interference with buoyancy and temperature regulation.

Based on low effectiveness of brightly colored flagging or spheres suspended over a pit, the operator shall install netting with a mesh size of 1 to 1.5 inches, and suspended at least 4 feet above the fluid surface, on all pits into which fluids are placed, except for storage of fresh water in a pit that contains no other material. The netting shall be installed within 24 hours following fluids release. In addition, oil slicks and oil sheens shall be promptly skimmed off the fluid surface. The requirement for prompt skimming of oil slicks and oil sheens also applies to cuttings trenches in which precipitation has accumulated. To minimize the potential for violation of the MBTA, the BLM recommends installation of netting at cuttings trenches left open for more than 24 hours following cessation of drilling and completion activities during a continuous development cycle on a pad. The recommendation for prompt netting does not apply to cuttings trenches during periods of active manipulation for cuttings management, remediation of contaminated materials, or other purposes.

All mortality or injury to birds shall be reported immediately to the BLM project lead and to the USFWS representative to the BLM Field Office at 970-243-2778 x28 and visit <http://www.fws.gov/mountain-prairie/contaminants/oilpits.htm>.

13. Birds of Conservation Concern. Pursuant to BLM Instruction Memorandum 2008-050, all surface-disturbing activities are prohibited from **May 1 to July 1** to reduce impacts to Birds of Conservation Concern (BCC). An exception to this TL will be granted if nesting surveys conducted no more than one week prior to surface-disturbing activities indicate that no BCC species are nesting within 30 meters (100 feet) of the area to be disturbed. Nesting shall be deemed to be occurring if a territorial (singing) male is present within the distance specified above. Nesting surveys shall include an aural survey for diagnostic vocalizations in conjunction with a visual survey for adults and nests. Surveys shall be conducted by a qualified breeding bird surveyor between sunrise and 10:00 AM under favorable conditions for detecting and identifying a BCC species. This provision does not apply to ongoing construction, drilling, or completion activities that are initiated prior to May 1 and continue into the 60-day period at the same location.
14. Range Management. Range improvements (fences, gates, reservoirs, pipelines, etc) shall be avoided during development of natural gas resources to the maximum extent possible. If range improvements are damaged during exploration and development, the operator will be responsible for repairing or replacing the damaged range improvements. If a new or improved access road bisects an existing livestock fence, steel frame gate(s) or a cattleguard with associated bypass gate shall be installed across the roadway to control grazing livestock.
15. Ips Beetle. To avoid mortality of pinyon pines due to infestations of the *Ips* beetle, any pinyon trees damaged during road, pad, or pipeline construction shall be chipped after being severed from the stump or grubbed from the ground, buried in the toe of fill slopes (if feasible), or cut and removed from the site within 24 hours to a location approved by the Colorado State Forest Service.
16. Paleontological Resources. All persons associated with operations under this authorization shall be informed that any objects or sites of paleontological or scientific value, such as vertebrate or scientifically important invertebrate fossils, shall not be damaged, destroyed, removed, moved, or disturbed. If in connection with operations under this authorization any of the above resources are encountered the operator shall immediately suspend all activities in the immediate vicinity of the discovery that might further disturb such materials and notify the BLM of the findings. The discovery must be protected until notified to proceed by the BLM.

Where feasible, the operator shall suspend ground-disturbing activities at the discovery site and immediately notify the BLM of any finds. The BLM will, as soon as feasible, have a BLM-permitted

paleontologist check out the find and record and collect it if warranted. If ground-disturbing activities cannot be immediately suspended, the operator shall work around or set the discovery aside in a safe place to be accessed by the BLM-permitted paleontologist.

17. Cultural Education/Discovery. All persons in the area who are associated with this project shall be informed that if anyone is found disturbing historic, archaeological, or scientific resources, including collecting artifacts, the person or persons will be subject to prosecution.

Pursuant to 43 CFR 10.4(g), the BLM shall be notified by telephone, with written confirmation, immediately upon the discovery of human remains, funerary items, sacred objects, or objects of cultural patrimony. Further, pursuant to 43 CFR 10.4 (c) and (d), activities shall stop in the vicinity of the discovery, and the discovery shall be protected for 30 days or until notified by the BLM to proceed.

If in connection with operations under this contract, the operator, its contractors, their subcontractors, or the employees of any of them discovers, encounters, or becomes aware of any objects or sites of cultural value or scientific interest such as historic ruins or prehistoric ruins, graves or grave markers, fossils, or artifacts, the operator shall immediately suspend all operations in the vicinity of the cultural resource and shall notify the BLM of the findings (16 USC 470h-3, 36 CFR 800.112). Operations may resume at the discovery site upon receipt of written instructions and authorization by the BLM. Approval to proceed will be based upon evaluation of the resource. Evaluation shall be by a qualified professional selected by the BLM from a Federal agency insofar as practicable. When not practicable, the operator shall bear the cost of the services of a non-Federal professional.

Within five working days, the BLM will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places
- what mitigation measures the holder will likely have to undertake before the site can be used (assuming that *in-situ* preservation is not necessary)
- the timeframe for the BLM to complete an expedited review under 36 CFR 800.11, or any agreements in lieu thereof, to confirm through the SHPO State Historic Preservation Officer that the findings of the BLM are correct and that mitigation is appropriate

The operator may relocate activities to avoid the expense of mitigation and delays associated with this process, as long as the new area has been appropriately cleared of resources and the exposed materials are recorded and stabilized. Otherwise, the operator shall be responsible for mitigation costs. The BLM will provide technical and procedural guidelines for relocation and/or to conduct mitigation. Upon verification from the BLM that the required mitigation has been completed, the operator will be allowed to resume construction.

Antiquities, historic ruins, prehistoric ruins, and other cultural or paleontological objects of scientific interest that are outside the authorization boundaries but potentially affected, either directly or indirectly, by the Proposed Action shall also be included in this evaluation or mitigation. Impacts that occur to such resources as a result of the authorized activities shall be mitigated at the operator's cost, including the cost of consultation with Native American groups.

Any person who, without a permit, injures, destroys, excavates, appropriates or removes any historic or prehistoric ruin, artifact, object of antiquity, Native American remains, Native American cultural

item, or archaeological resources on public lands is subject to arrest and penalty of law (16 USC 433, 16 USC 470, 18 USC 641, 18 USC 1170, and 18 USC 1361).

18. Visual Resources. Production facilities shall be placed to avoid or minimize visibility from travel corridors, residential areas, and other sensitive observation points—unless directed otherwise by the BLM due to other resource concerns—and shall be placed to maximize reshaping of cut-and-fill slopes and interim reclamation of the pad.

To the extent practicable, existing vegetation shall be preserved when clearing and grading for pads, roads, and pipelines. The BLM may direct that cleared trees and rocks be salvaged and redistributed over reshaped cut-and-fill slopes or along linear features.

Above-ground facilities shall be painted **shale green** to minimize contrast with adjacent vegetation or rock outcrops.

19. Windrowing of Topsoil. Topsoil shall be windrowed around the pad perimeter to create a berm that limits and redirects stormwater runoff and extends the viability of the topsoil per BLM Topsoil Best Management Practices (BLM 2009 PowerPoint presentation available upon request from Glenwood Springs Field Office). Topsoil shall also be windrowed, segregated, and stored along pipelines and roads for later spreading across disturbed corridors during final reclamation. Topsoil berms shall be promptly seeded to maintain soil microbial activity, reduce erosion, and minimize weed establishment.
20. Reserve Pit. A minimum of 2 feet of freeboard shall be maintained in the reserve pit. Freeboard is measured from the highest level of drilling fluids and cuttings in the reserve pit to the lowest surface elevation of ground at the reserve pit perimeter.
21. Soils. Cuts and fills shall be minimized when working on erosive soils and slopes in excess of 30 percent. Cut-and-fill slopes shall be stabilized through revegetation practices with an approved seed mix shortly following construction activities to minimize the potential for slope failures and excessive erosion. Fill slopes adjacent to drainages shall be protected with well-anchored silt fences, straw wattles, or other acceptable BMPs designed to minimize the potential for sediment transport. On slopes greater than 50 percent, BLM personnel may request a professional geotechnical analysis prior to construction.

SITE-SPECIFIC COAS APPLICABLE TO THE 21A PAD

The following site-specific surface use COAs are in addition to the standard COAs applicable to all wells within the DMDP area and all stipulations attached to the respective Federal leases.

1. Generator Noise. The generator(s) and pump(s) serving the injection well shall be installed and operated at the site in a manner that, at a minimum, meets the Colorado Oil and Gas Conservation Commission's Noise Abatement regulation (No. 802) for Residential/Agricultural/Rural Zone. In summary, this regulation requires that the noise level not exceed 50 db(A) between 7:00 p.m. and 7:00 a.m. at a distance of 350 feet from the noise source.
2. Right-of-Way Grant. Prior to initiating drilling of the injection well on BLM surface, Dejour shall comply with any BLM requirements relative to obtaining a right-of-way (ROW) grant. A ROW is required for disposal of produced water on public land (Federal surface) except for on-lease and on-unit facilities that are used solely for that lease or unit. See 43 CFR 2801.9 for specifics regarding when you must obtain a ROW grant.

DOWNHOLE CONDITIONS OF APPROVAL

Applications for Permit to Drill

Dejour Energy (USA)

Kokopelli

PWD Federal 21-6-91

Location: SW SE, Section 21, T6S, R91W

1. Twenty-four hours *prior* to (a) spudding, (b) conducting BOPE tests, (c) cementing/running casing strings, and (d) within 24 hours *after* spudding, the CRVFO shall be notified. One of the following CRVFO inspectors shall be notified by phone. The contact number for all notifications is: 970-876-9064. The BLM CRVFO inspectors are Julie King, Lead PET; David Giboo, PET; Greg Rios, PET; Alan White, PET; and Tim Barrett, PET.
2. A CRVFO petroleum engineer shall be contacted for a verbal approval prior to commencing remedial work, plugging operations on newly drilled boreholes, changes within the drilling plan, sidetracks, changes or variances to the BOPE, deviating from conditions of approval, and conducting other operations not specified within the APD. Contact, Bob Hartman at 970-244 3041 (office) or 970-210-2374 (cell) for verbal approvals.
3. If a well control issue or failed test (e.g. kick, blowout, water flow, casing failure, or a bradenhead pressure increase) arises during drilling or completions operations, Bob Hartman at 970-244 3041 (office) or 970-210-2374 (cell) shall be notified within 24 hours from the time of the event. IADC/Driller's Logs and Pason Logs (mud logs) shall be forwarded to CRVFO – Petroleum Engineer, 2300 River Frontage Road, Silt, CO 81652 within 24 hours of a well control event.
4. The BOPE shall be tested and conform to Onshore Order No. 2 for a **5M** system and recorded in the IADC/Driller's log. A casing head rated to 5,000 psi or greater shall be utilized.
5. An electrical/mechanical mud monitoring equipment shall be function tested prior to drilling out the surface casing shoe. As a minimum, this equipment shall include a trip tank, pit volume totalizer, stroke counter, and flow sensor.
6. Prior to drilling out the surface casing shoe, gas detecting equipment shall be installed in the mud return system. The mud system shall be monitored for hydrocarbon gas/pore pressure changes, rate of penetration, and fluid loss.
7. A gas buster shall be functional and all flare lines effectively anchored in place, prior to drilling out the surface casing shoe. The discharge of the flare lines shall be a minimum of 100 feet from the wellhead and targeted at bends. The panic line shall be a separate line (not open inside the buffer tank) and effectively anchored. All lines shall be downwind of the prevailing wind direction and directed into a flare pit, which cannot be the reserve pit. The flare system shall use an automatic ignition. Where noncombustible gas is likely or expected to be vented, the system shall be provided supplemental fuel for ignition and maintain a continuous flare.
8. After the surface/intermediate casing is cemented, a Pressure Integrity Test/Mud Equivalency Test/FIT shall be performed on the first well drilled in accordance with OOGO No. 2; Sec. III, B.1.i. to ensure that the surface/intermediate casing is set in a competent formation. This is not a Leak-off Test, but a formation competency test, insuring the formation at the shoe is tested to the highest anticipated mud weight equivalent necessary to control the formation pressure to the next casing shoe

depth or TD. Submit the results from the test via email (bhartman@blm.gov) on the first well drilled on the pad or any horizontal well and record results in the IADC log. Report failed test to Bob Hartman at 970-244 3041 (office) or 970-210-2374 (cell). A failed pressure integrity test is more than 10% pressure bleed off in 15 minutes.

9. As a minimum, cement shall be brought to 200 feet above the Mesaverde. After WOC for the production casing, a CBL shall be run to verify the TOC and an electronic copy in .las and .pdf format shall be submitted to CRVFO – Petroleum Engineer, 2300 River Frontage Road, Silt, CO 81652 within 48 hours. If the TOC is lower than required or the cement sheath of poor quality, a CRVFO petroleum engineer shall be notified for remedial operations within 48 hours from running the CBL and prior to commencing fracturing operations,

A greater volume of cement may be required to meet the 200-foot cement coverage requirement for the Williams Fork Formation /Mesaverde Group. Evaluate the top of cement on the first cement job on the pad (Temperature Log). If cement is below 200-foot cement coverage requirement, adjust cement volume to compensate for low TOC/cement coverage.

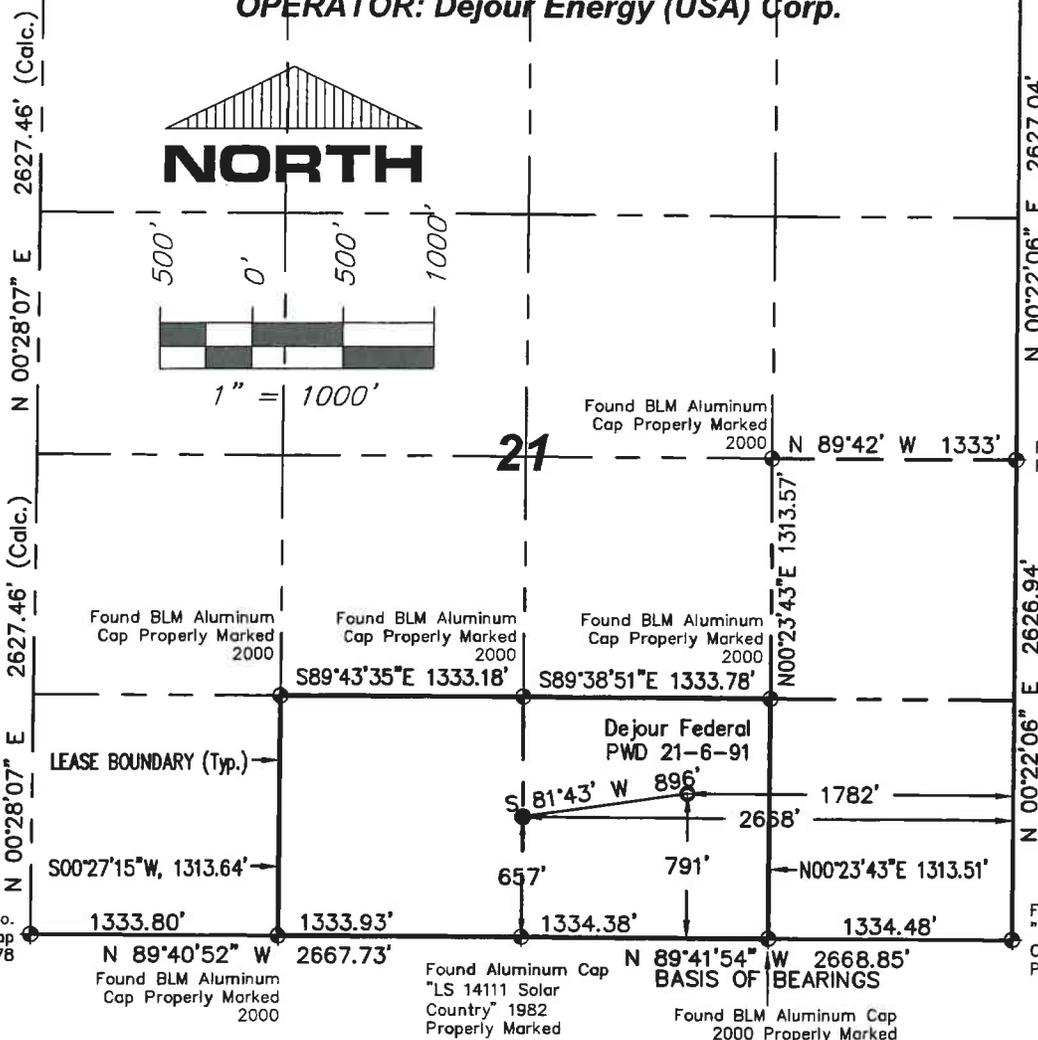
10. On the first well drilled on this pad, a triple combo open-hole log shall be run from the base of the surface borehole to surface and from TD to bottom of surface casing shoe. This log shall be in submitted within 48 hours in .las and .pdf format to: CRVFO – Todd Sieber, 2300 River Frontage Road, Silt, CO 81652. Contact Todd Sieber at 970-876-9000 or asieber@blm.gov for clarification.
11. Submit the (a) mud/drilling log (e.g. Pason disc), (b) driller's event log/operations summary report, (c) production test volumes, (d) directional survey, and (e) Pressure Integrity Test results within 30 days of completed operations (i.e. landing tubing) per 43 CRF 3160-9 (a).
12. Prior to commencing fracturing operations, the production casing shall be tested to the maximum anticipated surface treating/fracture pressure and held for 15 minutes without a 2% leak-off. If leak-off is found, Bob Hartman shall be notified within 24 hours of the failed test, but prior to proceeding with fracturing operations. The test shall be charted and set to a time increment as to take up no less than a quarter of the chart per test. The chart shall be submitted with the well completion report.

T. 6 S., R. 91 W., 6th P.M.

N 89°47'53" W 2662.44' (Calc.) N 89°33'42" W 2664.96' (Calc.)

Found Aluminum Cap
"LS 27925" 2008
Properly Marked

OPERATOR: Dejour Energy (USA) Corp.



Found BLM Aluminum Cap Properly Marked 2000

Found BLM Brass Cap Properly Marked 2000

Found BLM Aluminum Cap Properly Marked 2000

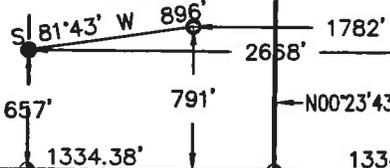
Found BLM Aluminum Cap Properly Marked 2000

Found BLM Aluminum Cap Properly Marked 2000

N00°23'43"E 1313.57'

LEASE BOUNDARY (Typ.)

Dejour Federal PWD 21-6-91



Found Garfield Co. Surveyor Brass Cap Properly Marked 1978

1333.80' N 89°40'52" W 2667.73'

Found BLM Aluminum Cap Properly Marked 2000

Found Aluminum Cap "LS 14111 Solar Country" 1982 Properly Marked

N 89°41'54" W 2668.85'

BASIS OF BEARINGS

Found BLM Aluminum Cap 2000 Properly Marked

Found Aluminum Cap "LS 14111 Solar Country" 1982 Properly Marked

NOTES:

- 1: GEODETIC POSITIONS ARE SHOWN IN DECIMAL DEGREES BASED ON NAD83.
- 2: UNITS OF MEASUREMENT: U.S. SURVEY FOOT
- 3: EXISTING GROUND ELEVATION: 7009.5'. PROPOSED PAD ELEVATION: 7008.0'. ELEVATIONS HAVE BEEN DERIVED USING GPS OBSERVATIONS, GEOID 09, NAVD 88.
- 4: ALL TOP AND BOTTOM OF HOLE LOCATIONS ARE MEASURED AT 90° ANGLES FROM SECTION LINES.
- 5: BASIS OF BEARINGS: N 89°41'54" W BETWEEN FOUND MONUMENT AS SHOWN HEREON.
- 6: SEE SHEET 1E FOR EXISTING IMPROVEMENTS LOCATED IN THE VICINITY OF PROPOSED WELL.
- 7: SURFACE USE: RANGELAND
- 8: USGS QUAD MAP: NEW CASTLE
- 9: GPS OPERATOR: KYLE TESKY OBSERVED AN AVERAGE PDOP OF ≤ 3.0 FOR ALL SURVEY MEASUREMENTS DEPICTED ON THIS AN SUBSEQUENT SHEETS. ALL GPS OBSERVATIONS ARE IN COMPLIANCE WITH COGCC RULE NO. 215

FEDERAL PWD 21-6-91 NAD83	
SURFACE HOLE LOCATION	SECTION LINE TIES
LATITUDE = 39.508541°N	FEL = 1782'
LONGITUDE = 107.556063°W	FSL = 791'
SURFACE HOLE LOCATION	
LATITUDE = 39.508131°N	FEL = 2668'
LONGITUDE = 107.559195°W	FSL = 657'

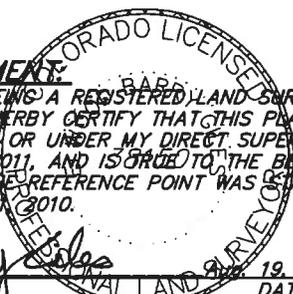
LEGEND:

- ⊕ - FOUND MONUMENT AS DESCRIBED HEREON
- - SURFACE HOLE LOCATION (SHL)
- ⊙ - BOTTOM HOLE LOCATION (BHL)

SURVEYORS STATEMENT

I, ELWOOD BARRY GILES, BEING A REGISTERED LAND SURVEYOR IN THE STATE OF COLORADO, DO HERBY CERTIFY THAT THIS PLAT REPRESENTS A SURVEY PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION BETWEEN APRIL, 2010 & JANUARY, 2011, AND IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF. THE REFERENCE POINT WAS STAKED IN THE FIELD AS SHOWN HEREIN APRIL 2, 2010.

Elwood Barry Giles
ELWOOD BARRY GILES
COLORADO LS 38150
DATE 5/19/2011



DEJ **SGM INC.**
118 W. 6th Street, Suite 200
Glenwood Springs, Co. 81601
(970)945-1004 www.SGM-Inc.com
320 Third St. Meeker, Co. 81641

1" = 1000'
Sheet 1F of 9
PWD 21-6-91
Well Location Plat - Federal PWD 21-6-91
SW 1/4 SE 1/4, Section 21, T.6S., R.91W., 6TH P.M.
Job# 2010-112.001 Date: 5/12/2011 By: BG File: APD-SWSE_Sec21

Additional details for the proposed Dejour Energy (USA) Corporation well PWD Federal 21-6-91:

Well PWD Federal 21-6-91 is proposed as a produced water disposal well on an approved production well pad. The well pad is located on a Federal mineral lease and the surface is also managed by the BLM.

The proposed well will be utilized for disposal of produced water from natural gas wells associated with the Federal lease. Injection rates for the produced water are anticipated to be between 200 and 1600 barrels per day at injection pressures estimated to be less than 1300 psi and 1600 psi respectively. The receiving formation is the Iles Member of the Williams Fork Formation. The formation porosity is estimated to be 0.8% and the formation permeability is estimated to be between 0.5 and 1.0 millidarcies.

Drilling is estimated to start on 01/07/2012 with completion anticipated in 2 weeks. Work is being done under BLM Bond COB000239.

Operator Certification Statement

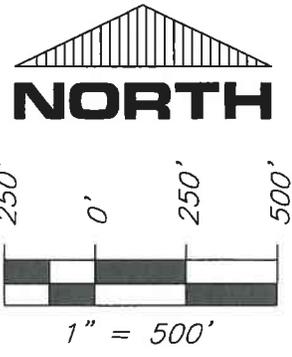
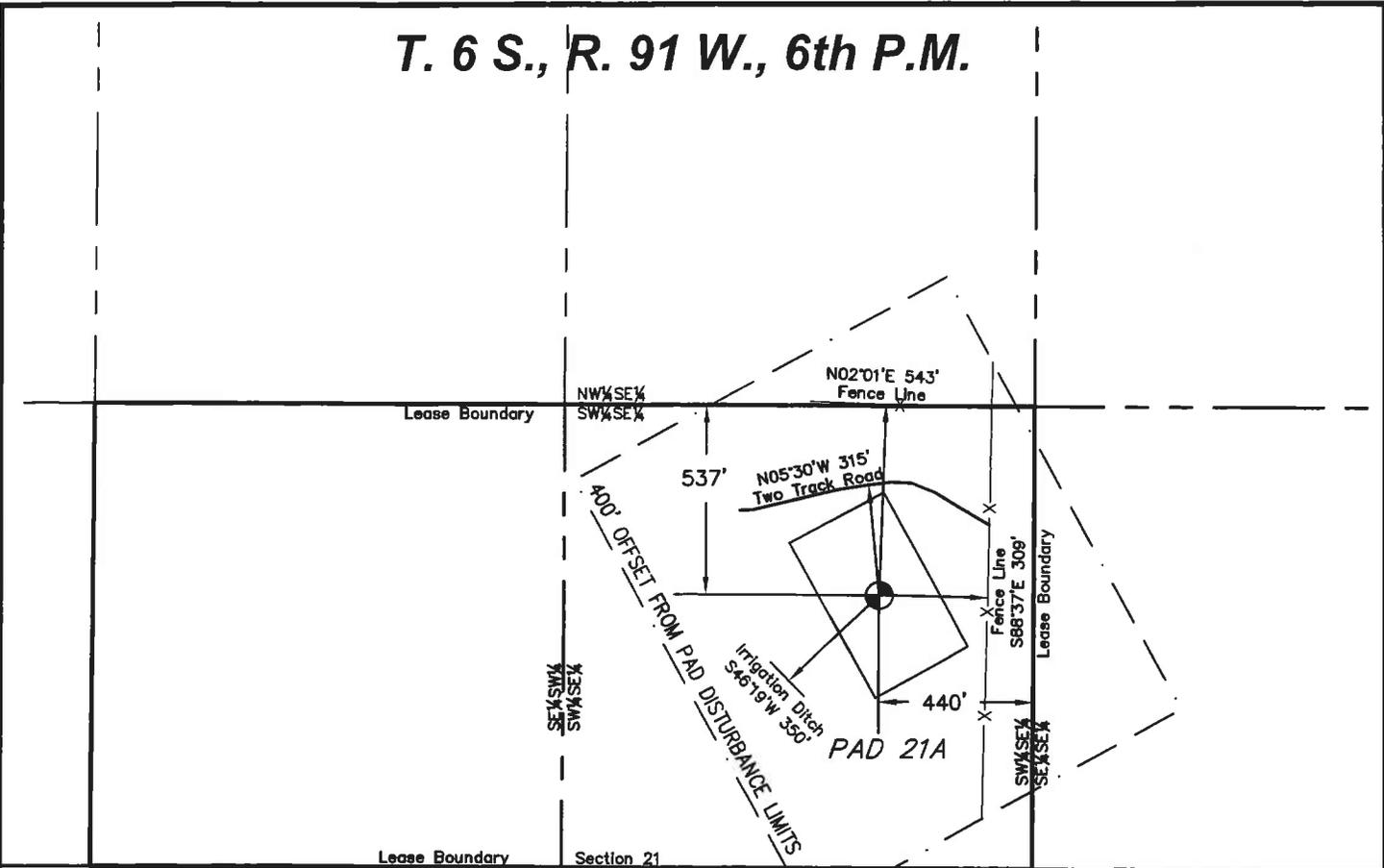
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Dejour Energy (USA) Corporation and its contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under BLM bond COB000239. This statement is subject to the provisions of 18 U.S.C. § 1001 for the filing of a false statement.

Executed this 1st day of December, 2011



Gary Haefele, Operations Manager
Dejour Energy (USA) Corporation
1401 Seventeenth Street, Suite 1000
Denver Colorado 80202
303-296-3535
ghaefele@dejour.com

T. 6 S., R. 91 W., 6th P.M.



Dejour Energy (USA) Corp.
 Proposed Pad 21-A
 Reference Point = ⊕
 Center of Pad Stake
 Lat.: 39.508501°N
 Long.: 107.556036°W
 NAD83

SURVEYORS STATEMENT:

I, ELWOOD BARRY GILES, BEING A REGISTERED LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY CERTIFY THAT THIS PLAT REPRESENTS A SURVEY PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION BETWEEN APRIL, 2010 & JANUARY, 2011, AND IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF. THE REFERENCE POINT WAS STAKED IN THE FIELD AS SHOWN HEREON APRIL 21, 2010.

Elwood Barry Giles
 ELWOOD BARRY GILES
 COLORADO LS 38150
 JULY 19, 2011
 DATE

Revised 7/19/11: Update cert to Reference Point staking

	SGM INC. 118 W. 6th Street, Suite 200 Glenwood Springs, Co. 81601 (970)945-1004 www.SGM-Inc.com 320 Third St. Meeker, Co. 81641	1" = 500' Sheet 1E of 9	Addendum to Well Location Plat for Dejour Energy (USA) Corp. Pad 21-A SW¼, SE¼ T.6S., R.91W., 6th P.M., Garfield Co., Colorado
	Dejour Pad 21-A	Job# 2010-112.001	Date: 6/8/2011
	By: BG	File: APD-SWSE_Sec21	

Notes:

1. Contact utility line locators before digging. CALL 811

2. Earth work quantities are estimated and should be used at contractor's own discretion.

3. Earth work is based on the removal of 6 inches of topsoil on all disturbed areas

4. ROAD SURFACES TO BE FINISHED WITH 6 INCHES OF CLASS 6 ROAD BASE. AFTER INSTALLATION OF PIPELINE

DISTURBED AREA = 4.42 ACRES
 CUT SLOPES: 2:1
 FILL SLOPES: 2:1
 PAD QUANTITIES:
 TOTAL CUT = 13288 CUBIC YARDS
 TOTAL FILL = 13214 CUBIC YARDS
 SPOIL = 74 BANK CUBIC YARDS
 SPOIL DOES NOT INCLUDE TOP SOIL

ROAD QUANTITIES:
 TOTAL CUT: 1550 CUBIC YARDS
 TOTAL FILL: 1100 CUBIC YARDS
 SPOIL = 450 BANK CUBIC YARDS

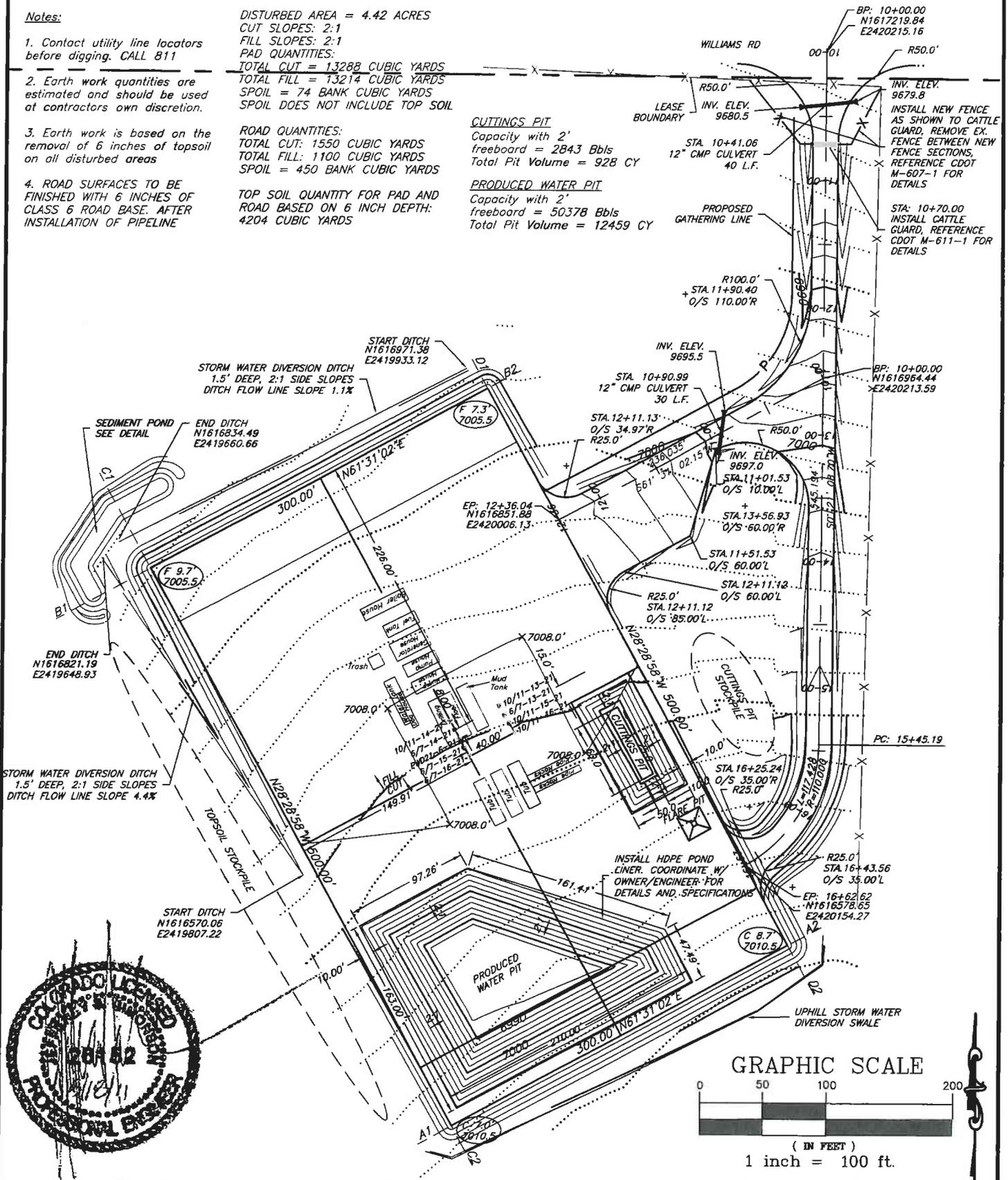
TOP SOIL QUANTITY FOR PAD AND ROAD BASED ON 6 INCH DEPTH:
 4204 CUBIC YARDS

CUTTINGS PIT

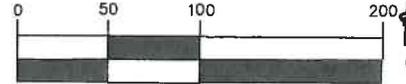
Capacity with 2' freeboard = 2843 Bbls
 Total Pit Volume = 928 CY

PRODUCED WATER PIT

Capacity with 2' freeboard = 50378 Bbls
 Total Pit Volume = 12459 CY



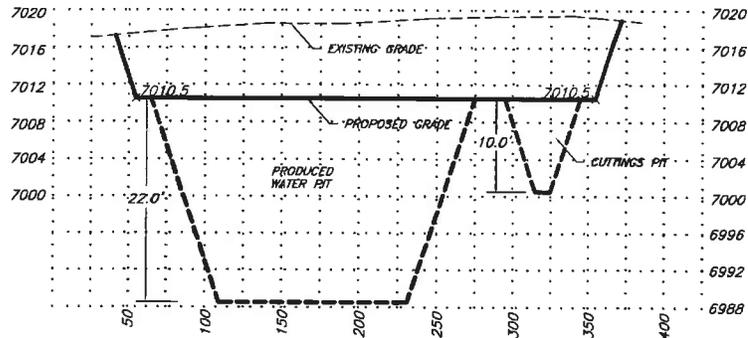
GRAPHIC SCALE



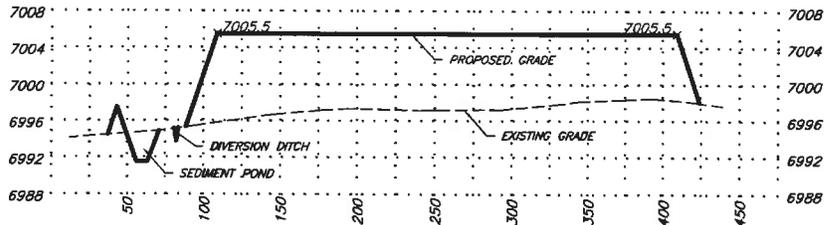
(IN FEET)
 1 inch = 100 ft.



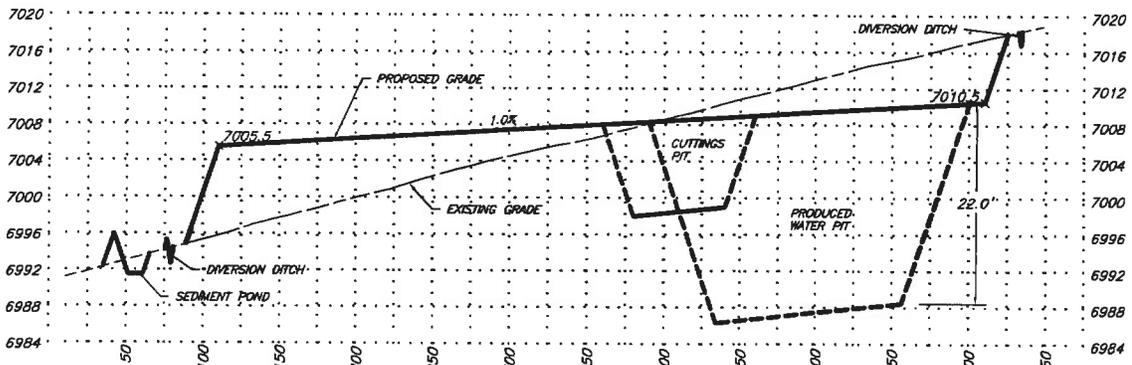
 	SGM INC. 118 W. 6th Street, Suite 200 Glenwood Springs, Colorado 81601 (970) 945-1004 (FAX 945-5948) Aspen, Colorado (970) 925-6727	Scale: 1" = 100' Sheet 2A of 9 Pad 21A	Construction Layout SW1/4SE1/4, Section 21, T.6S., R.91W., 6TH P.M.		
	Job# 2010-112.001 Date: 9.14.11 By: DCS File: Pad 21ABM.dwg				



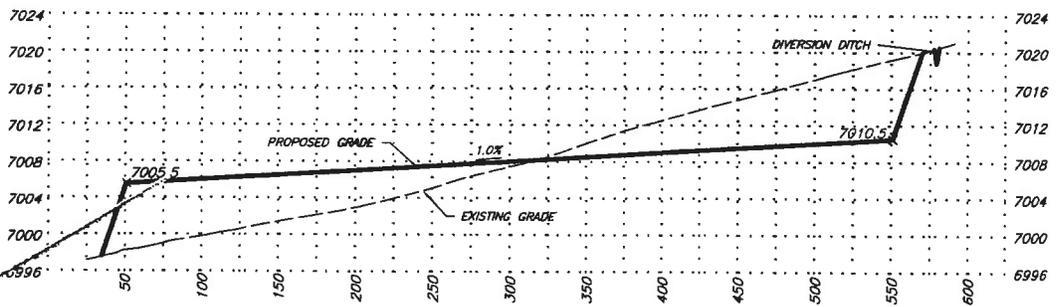
Section A1-A2



Section B1-B2



Section C1-C2



Section D1-D2

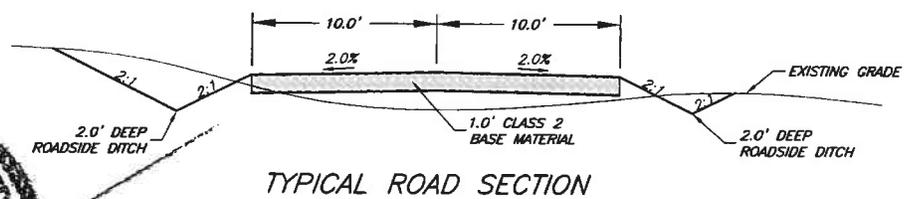
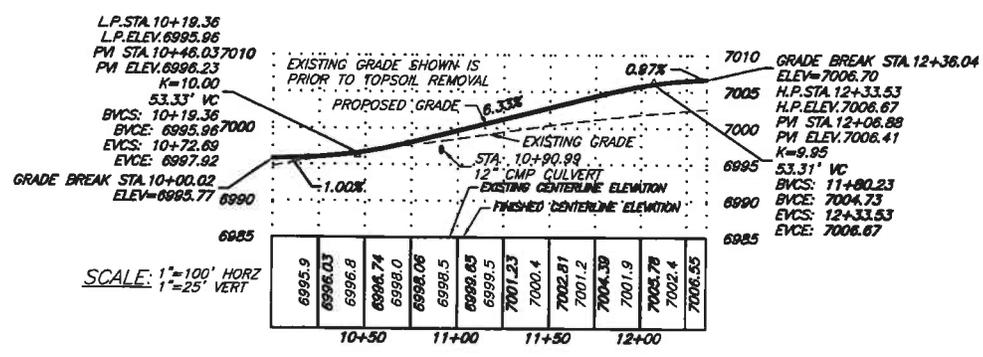
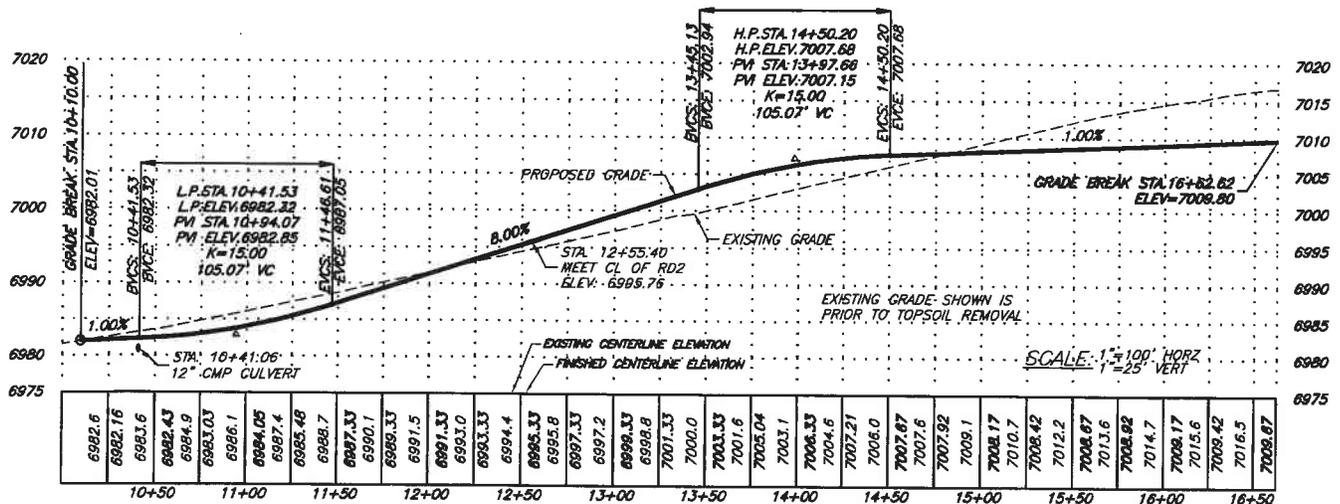
SCALE: 1" = 120' HORZ
1" = 20' VERT



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Scale: 1" = 100'
Sheet 2B of 9
Pad 21A

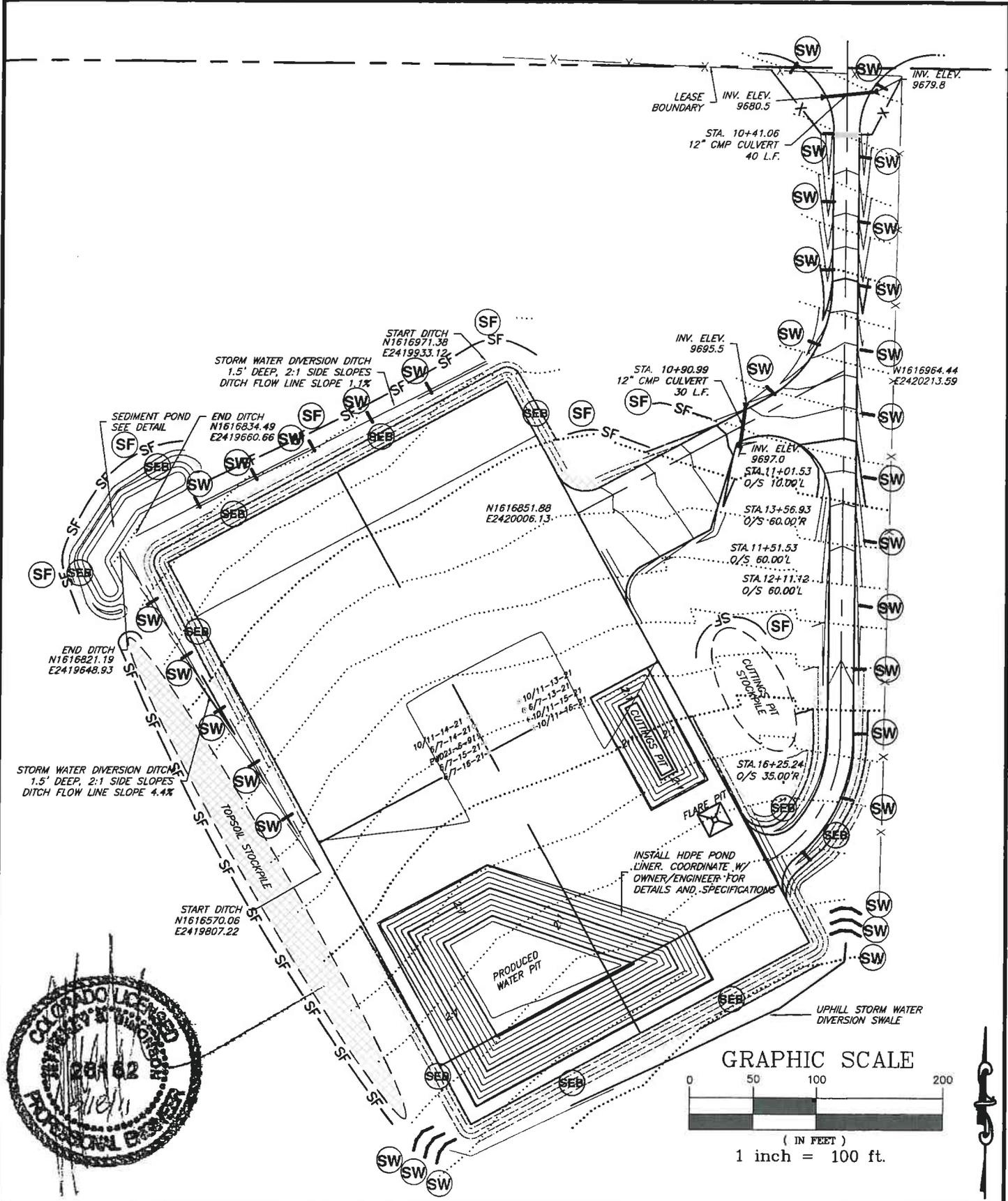
Pad Cross-Sections
SW1/4SE1/4, Section 21, T.6S., R.9w., 6TH P.M.
Job# 2010-112.001 Date: 9.14.11 By: DCS File: Pad 21ABM.dwg



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Scale: 1" = 100'
 Sheet 2C of 9
 Pad 21A

ACCESS ROAD PROFILES AND SECTION
 SW1/4SE1/4, Section 21, T.6S., R.9w., 6TH P.M.
 Job# 2010-112.001 Date: 9.14.11 By: DCS File: Pad 21ABM.dwg

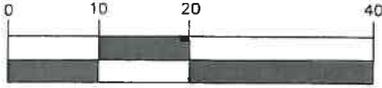


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Scale: 1" = 100'
 Sheet 2D of 9
 Pad 21A

STORM WATER MANAGEMENT PLAN
 SW1/4SE1/4, Section 21, T.6S., R.9w., 6TH P.M.
 Job# 2010-112.001 Date: 9.14.11 By: DCS File: Pad 21ABM.dwg

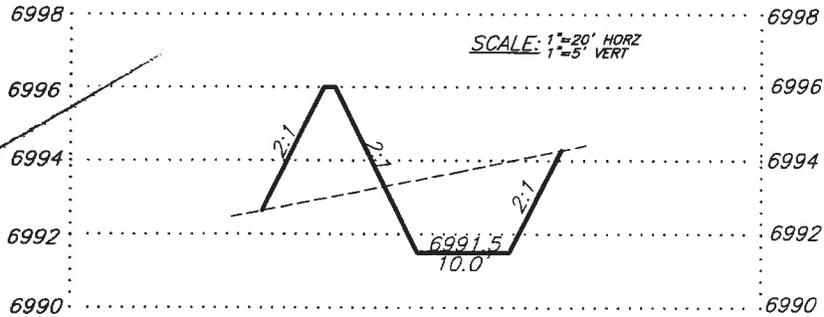
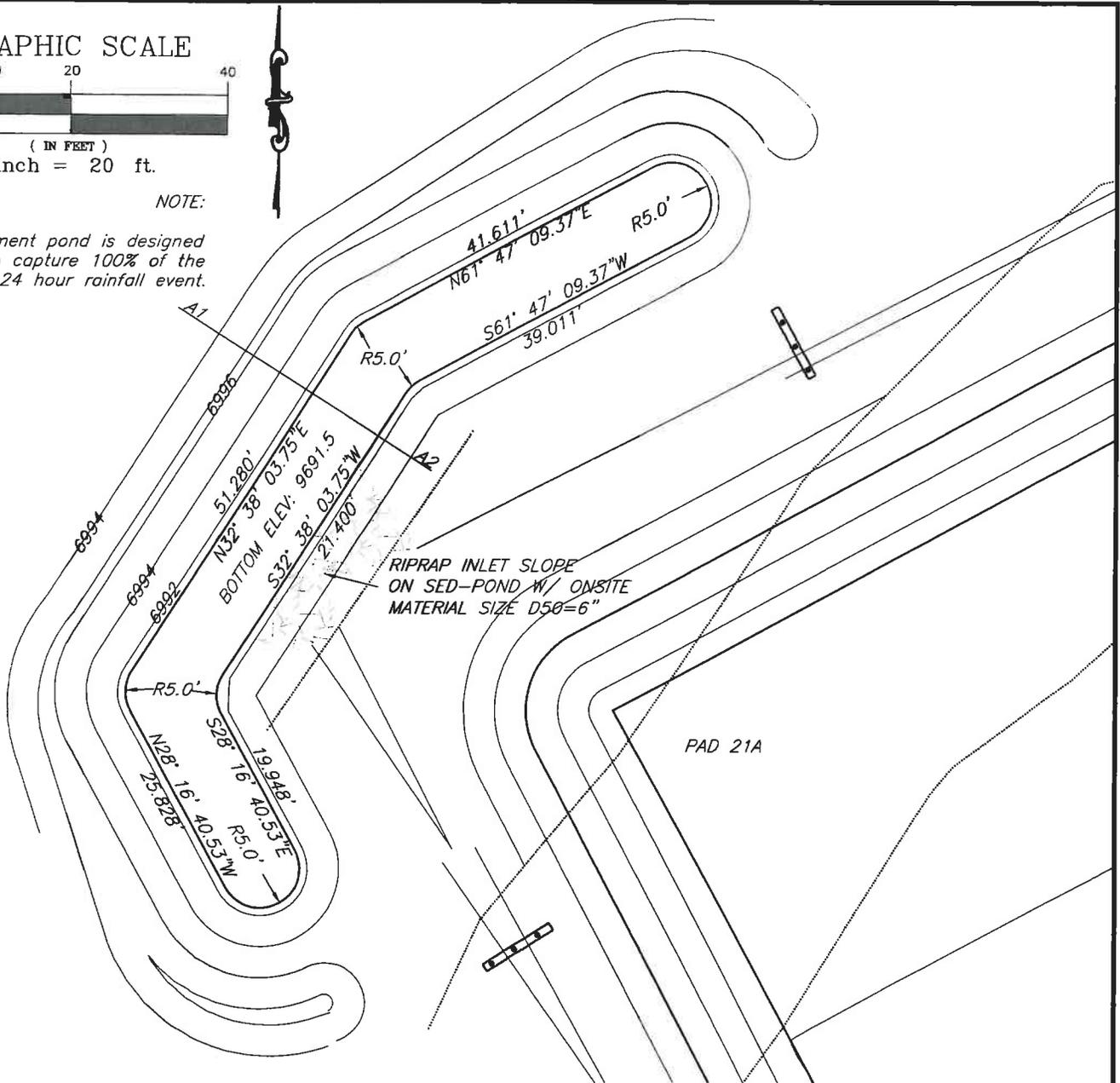
GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

NOTE:

Sediment pond is designed to capture 100% of the 2-yr 24 hour rainfall event.



SECTION A1-A2



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Aspen, Colorado (970) 925-6727

Scale: 1" = 100'
Sheet 2E of 9
Pad 21A

SEDIMENT POND PLAN AND PROFILE
SW1/4SE1/4, Section 21, T.6S., R.9w., 6TH P.M.
Job# 2010-112.001 Date: 9.14.11 By: DCS File: Pad 21ABM.dwg

SF



SILT FENCE

A temporary sediment barrier constructed of posts, filter fabric and, in some cases, a wire support fence, placed across or near the toe of a slope or in a minor drainage way to intercept and detain sediment and decrease flow velocities from drainage areas of limited size; applicable where sheet and rill or small concentrated flows may be a problem.

SW



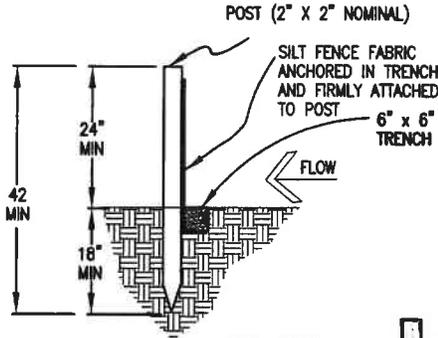
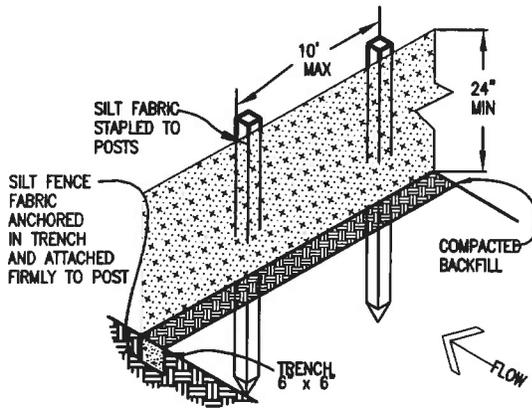
STRAW WATTLE

A temporary sediment barrier composed of netted straw rolls placed parallel with grade of slope to intercept and detain flow to allow sediment to settle; for low flow velocities where sheet and rill erosion potential is low. Install to manufacturer specs.

SEB

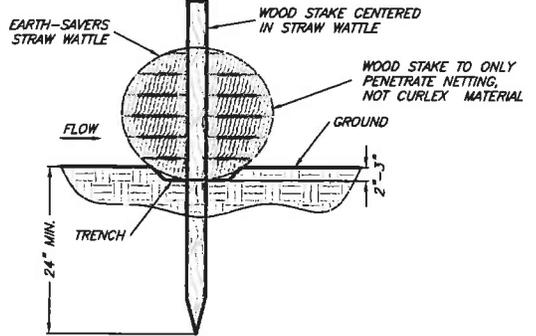
SOIL EROSION BLANKET

Apply to all new fill slopes steeper than 4:1. See slope installation detail.



POST (2" X 2" NOMINAL)

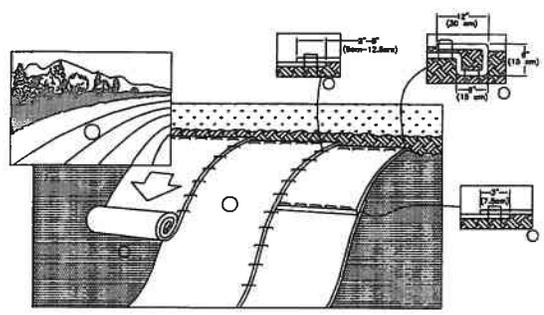
SILT FENCE FABRIC ANCHORED IN TRENCH AND FIRMLY ATTACHED TO POST
6" x 6" TRENCH



SILT FENCE

STRAW WATTLE INSTALLATION DETAIL

N.T.S



- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECIP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECIP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECIP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECIP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECIP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECIP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECIP'S.
- ROLL THE RECIP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECIP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECIP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL RECIP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECIP'S TYPE.
- CONSECUTIVE RECIP'S SPUNCE DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECIP'S WIDTH.
NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 8" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECIP'S.

SLOPE INSTALLATION

SEEDING (RIGHT-OF-WAY) SEEDING PLAN
SOIL PREPARATION, FERTILIZER, SEEDING, MULCHING (NEED FREE) AND MULCH TACKIFIER WILL BE REQUIRED FOR AN ESTIMATED 0.9 ACRES OF DISTURBED AREA WITHIN THE RIGHT-OF-WAY LIMITS WHICH ARE NOT SURFACED. THE FOLLOWING TYPES AND RATES SHALL BE USED:

COMMON NAME	SCIENTIFIC NAME	LIBS PLS/ACRE
PHOBIA* WESTERN WHEATGRASS	PASCOPYRUM SMITHI	8.0
SAND DROPSEED	SPOROBOLUS CRYPTANDRUS	1.0
"SALADO" ALKALI SACATON	SPOROBOLUS AIROIDES	2.0
"PALOMA" INDIAN RICEGRASS	ORTYZOPSIS HYMENOIDES	3.0
"CHEYENNE" INDIANGRASS	SORGHASTRUM MUTANS	4.0
"CHAMPION" LITTLE BLUESTEM	SCHIZACHYRUM SCOPARUM	4.0
"BROOM" MOUNTAIN BROME	BROMUS MARGINATUS	6.0
TOTAL		28.0 LIBS

*APPLY SEED MIX TO ALL TOPSOIL AREAS AND SOIL EROSION BLANKET AREAS BEFORE BLANKET IS INSTALLED.

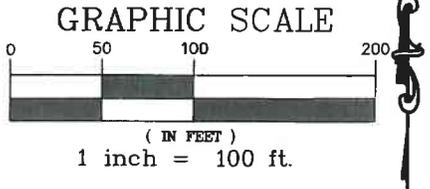
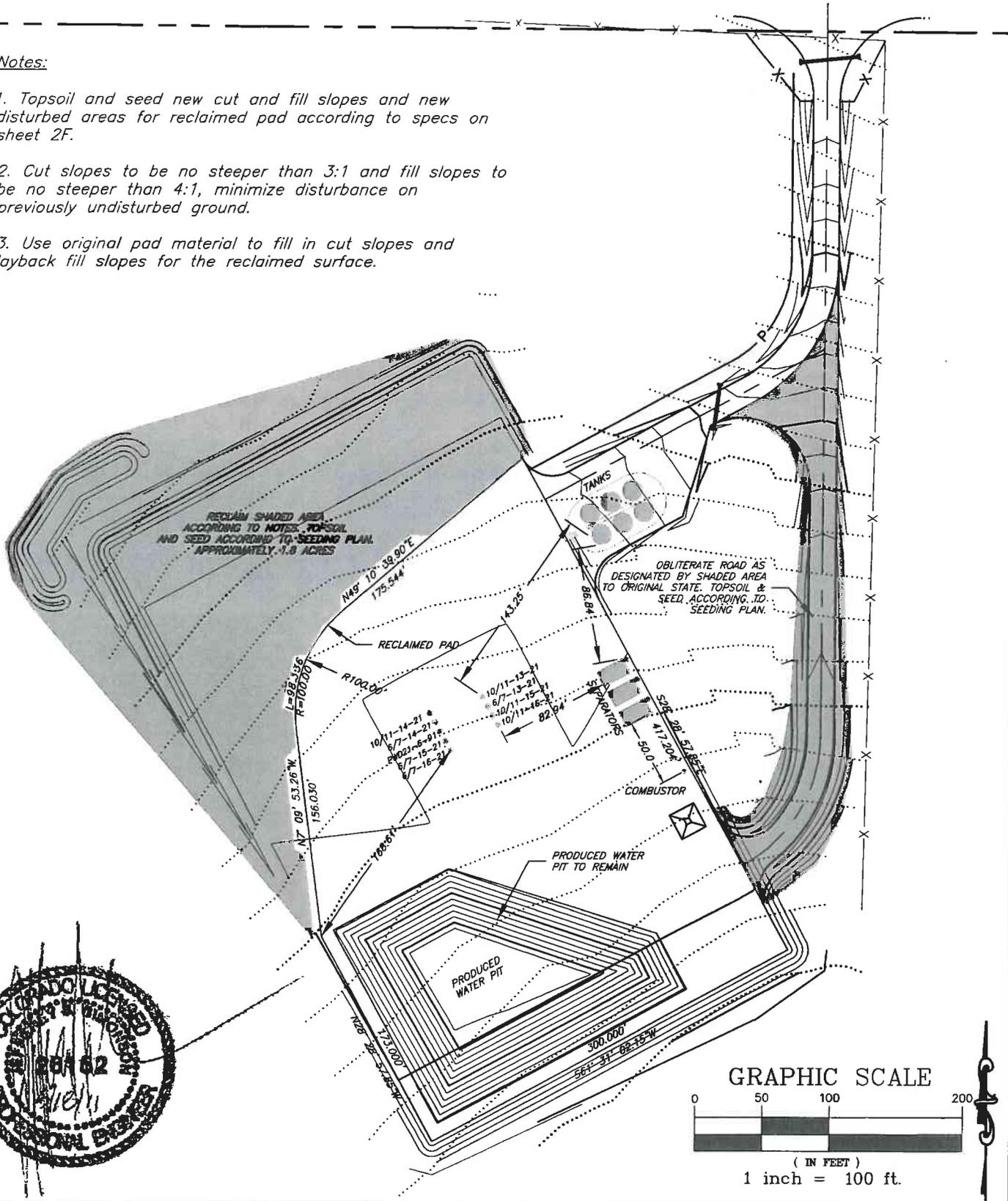
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118 W. 6th Street, Suite 200
Glenwood Springs, Colorado 81601
(970) 945-1004 (FAX 945-5948)
Aspen, Colorado (970) 925-6727

Scale: 1" = 100'
Sheet 2F of 9
Pad 21A

SWMP DETAILS
SW1/4SE1/4, Section 21, T.6S., R.9w., 6TH P.M.
Job# 2010-112.001 Date: 9.14.11 By: DCS File: Pad 21ABM.dwg

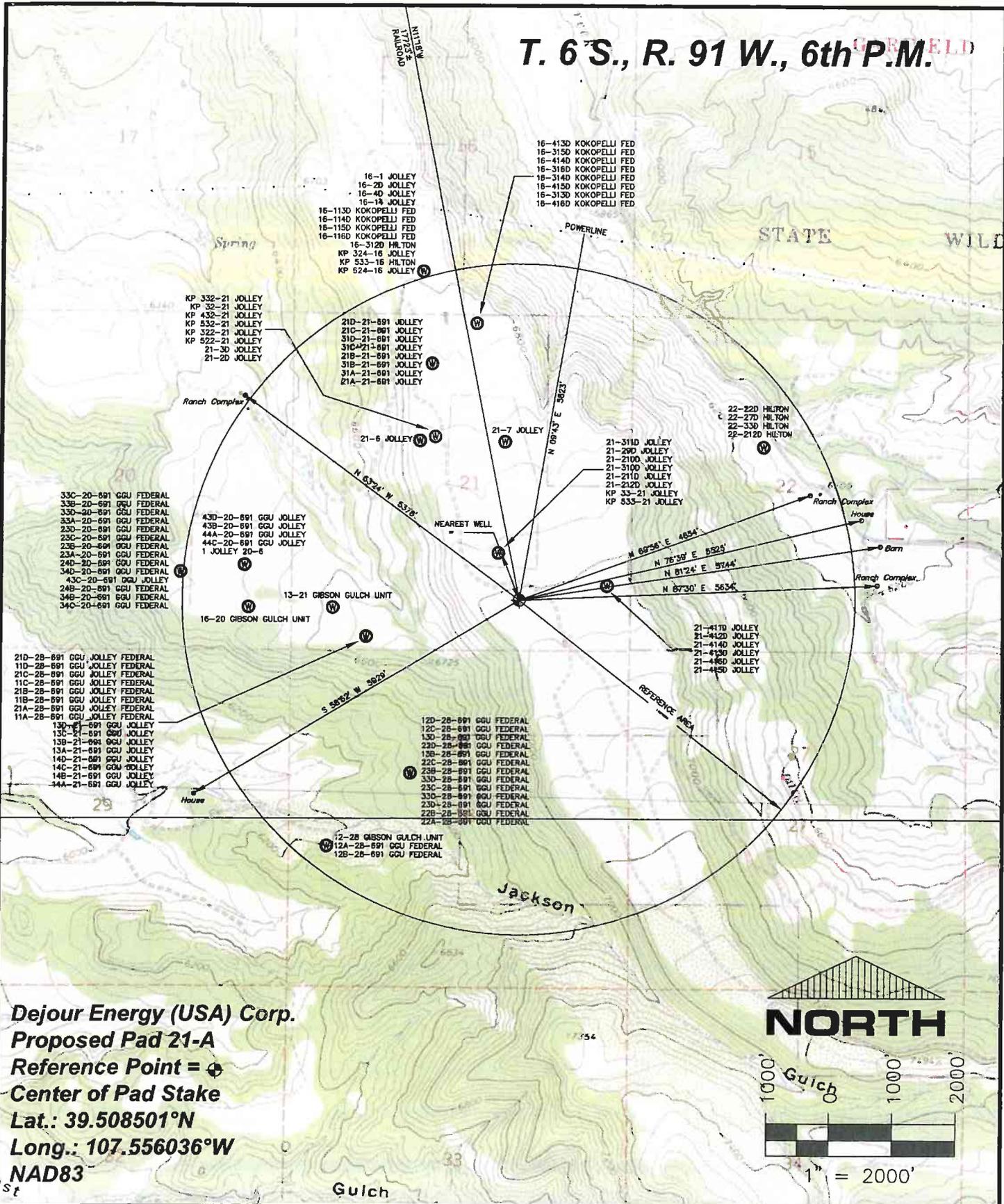
Notes:

1. Topsoil and seed new cut and fill slopes and new disturbed areas for reclaimed pad according to specs on sheet 2F.
2. Cut slopes to be no steeper than 3:1 and fill slopes to be no steeper than 4:1, minimize disturbance on previously undisturbed ground.
3. Use original pad material to fill in cut slopes and layback fill slopes for the reclaimed surface.



 	SGM INC. 118 W. 6th Street, Suite 200 Glenwood Springs, Colorado 81601 (970) 945-1004 (FAX 945-5948) Aspen, Colorado (970) 925-6727	Scale: 1" = 100'	Reclamation Plan SW1/4SE1/4, Section 21, T.6S., R.91W., 6TH P.M.		
		Sheet 2G of 9			
		Pad 21A			

T. 6 S., R. 91 W., 6th P.M.



Dejour Energy (USA) Corp.

Proposed Pad 21-A

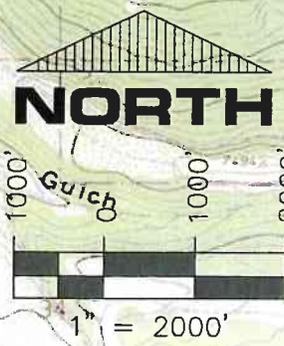
Reference Point = \oplus

Center of Pad Stake

Lat.: 39.508501°N

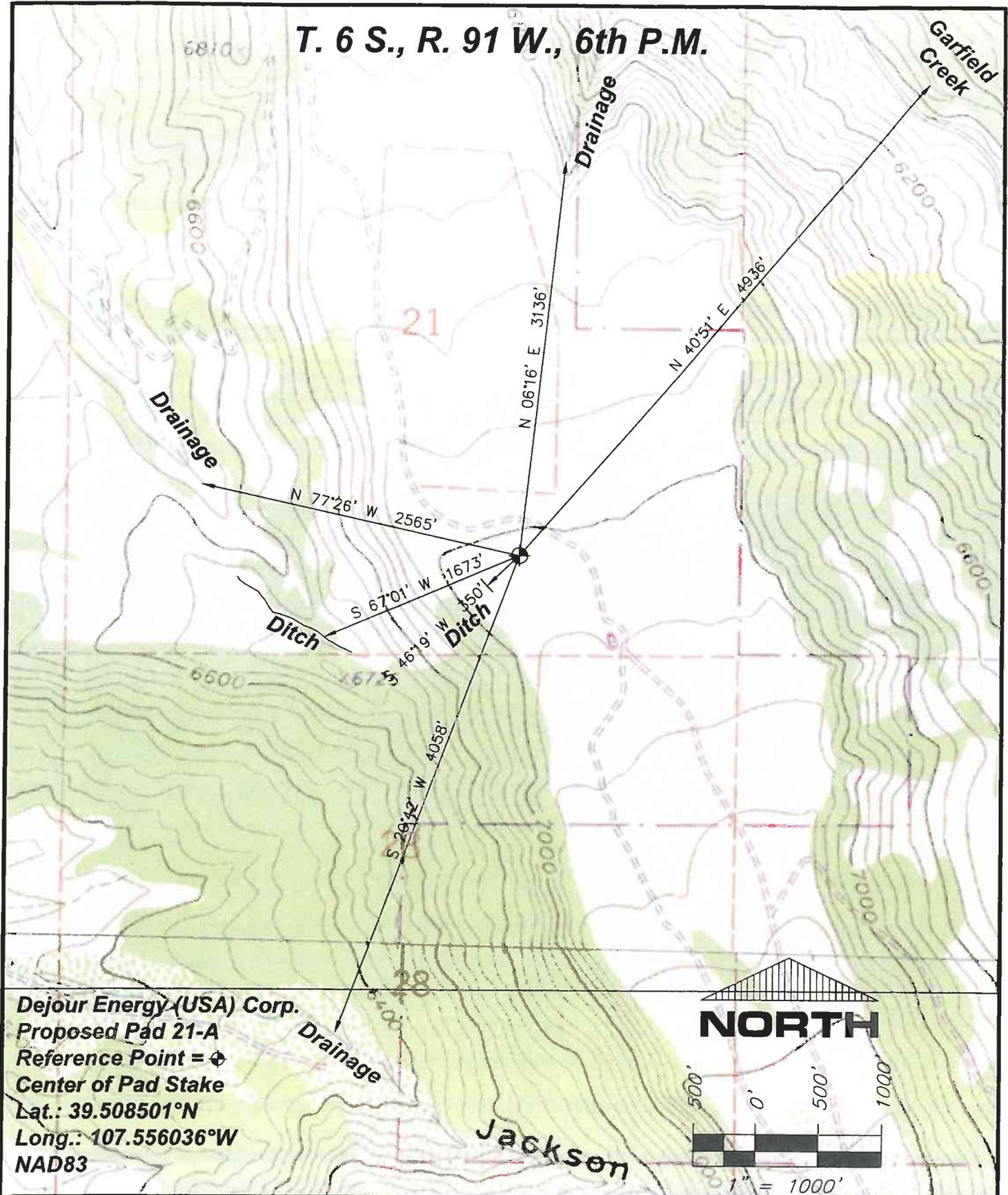
Long.: 107.556036°W

NAD83



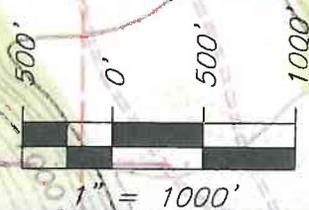
 	SGM INC. 118 W. 6th Street, Suite 200 Glenwood Springs, Co. 81601 (970)945-1004 www.SGM-Inc.com 320 Third St. Meeker, Co. 81541	1" = 2000' Sheet 3 of 9 Dejour Pad 21A	Topographic & Reference Area Map Dejour Energy (USA) Corp. Pad 21-A		
	Job# 2010-112.001	Date: 4/22/2011	By: BG	File: APD-SWSE_Sec21	

T. 6 S., R. 91 W., 6th P.M.



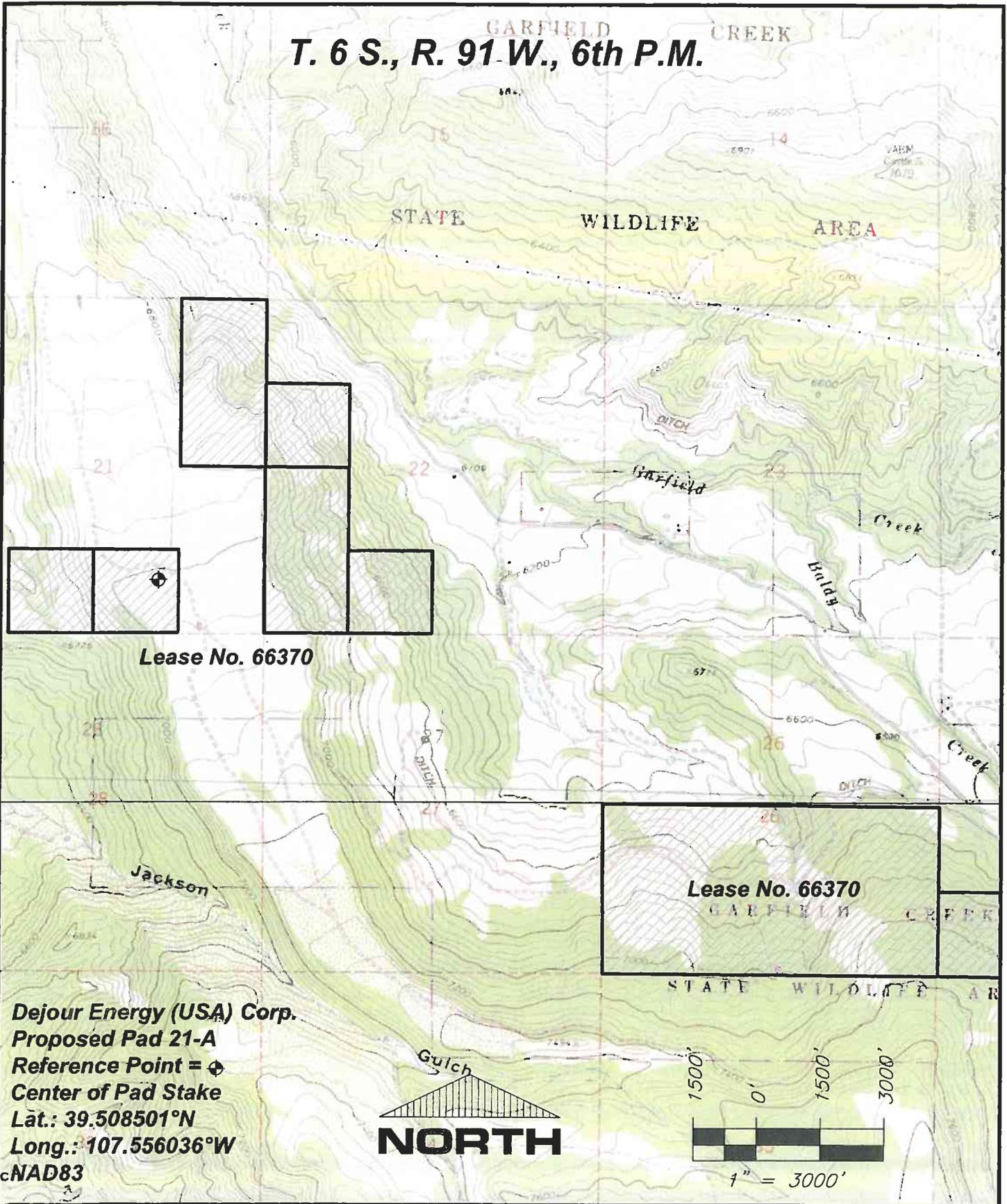
Dejour Energy (USA) Corp.
Proposed Pad 21-A
Reference Point = 
Center of Pad Stake
Lat.: 39.508501°N
Long.: 107.556036°W
NAD83

NORTH



 	SGM INC. 118 W. 6th Street, Suite 200 Glenwood Springs, Co. 81601 (970)945-1004 www.SGM-Inc.com 320 Third St. Meeker, Co. 81641	1" = 1000' Sheet 4 of 9 Dejour Pad 21-A	Hydrology Map for Dejour energy (USA) Corp. Pad 21-A T.6S., R.91W., 6th P.M., Garfield County, Colorado		
	Job# 2010-112.001	Date: 4/22/2011	By: BG	File: APD-SWSE_Sec21	

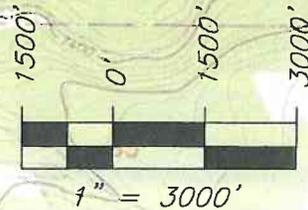
T. 6 S., R. 91 W., 6th P.M.



Lease No. 66370

Lease No. 66370

Dejour Energy (USA) Corp.
Proposed Pad 21-A
Reference Point = 
Center of Pad Stake
Lat.: 39.508501°N
Long.: 107.556036°W
cNAD83



 	SGM INC. 118 W. 6th Street, Suite 200 Glenwood Springs, Co. 81601 (970)945-1004 www.SGM-Inc.com 320 Third St. Meeker, Co. 81641	1" = 2000' Sheet 5 of 9 Dejour Pad 21A	Lease No. 66370 in Portions of Sections 21,22,25&26 T.6S., R.91W., 6th P.M., Garfield County, Colorado			
	Job# 2010-112.001	Date: 4/22/2011	By: BG	File: APD-SWSE_Sec21		



**Looking East from Reference Point
May 26, 2010**



**Looking West from Reference Point
May 26, 2010**



**Looking North from Reference Point
May 26, 2010**



**Looking South from Reference Point
May 26, 2010**

**Dejour Energy (USA) Corp.
Proposed Pad 21-A
Reference Point
Center of Pad Stake
Lat.: 39.508501°N
Long.: 107.556036°W
NAD83**



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NO SCALE

Sheet 6 of 9

Dejour Pad 21A

*Location Pictures of Dejour Energy (USA) Corp. Pad 21-A
SWSEW Sec. 21, T.6S., R.91W., 6th P.M., Garfield County, Colorado*

Job# 2010-112.001

Date: 4/22/2011

By: BG

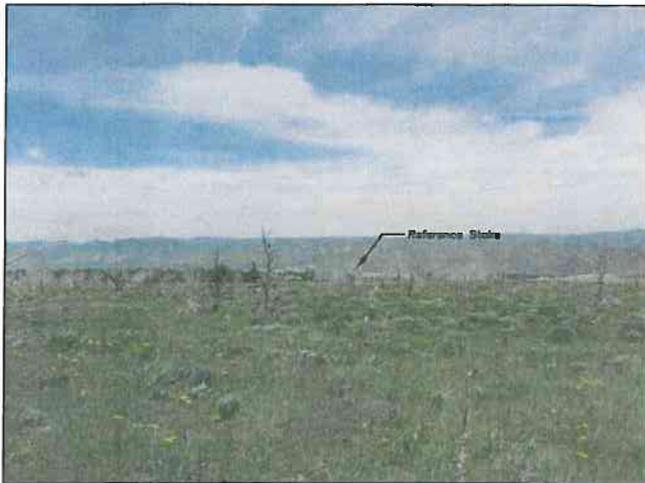
File: APD-SWSE_Sec21



**Looking East toward Reference Point
May 26, 2010**



**Looking West toward Reference Point
May 26, 2010**



**Looking North toward Reference Point
May 26, 2010**



**Looking South toward Reference Point
May 26, 2010**

**Dejour Energy (USA) Corp.
Proposed Pad 21-A
Reference Point
Center of Pad Stake
Lat.: 39.508501°N
Long.: 107.556036°W
NAD83**



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NO SCALE

Sheet 7 of 9

Dejour Pad 21A

*Location Pictures of Dejour Energy (USA) Corp. Pad 21-A
SW/4 Sec. 21, T.6S., R.91W., 6th P.M., Garfield County, Colorado*

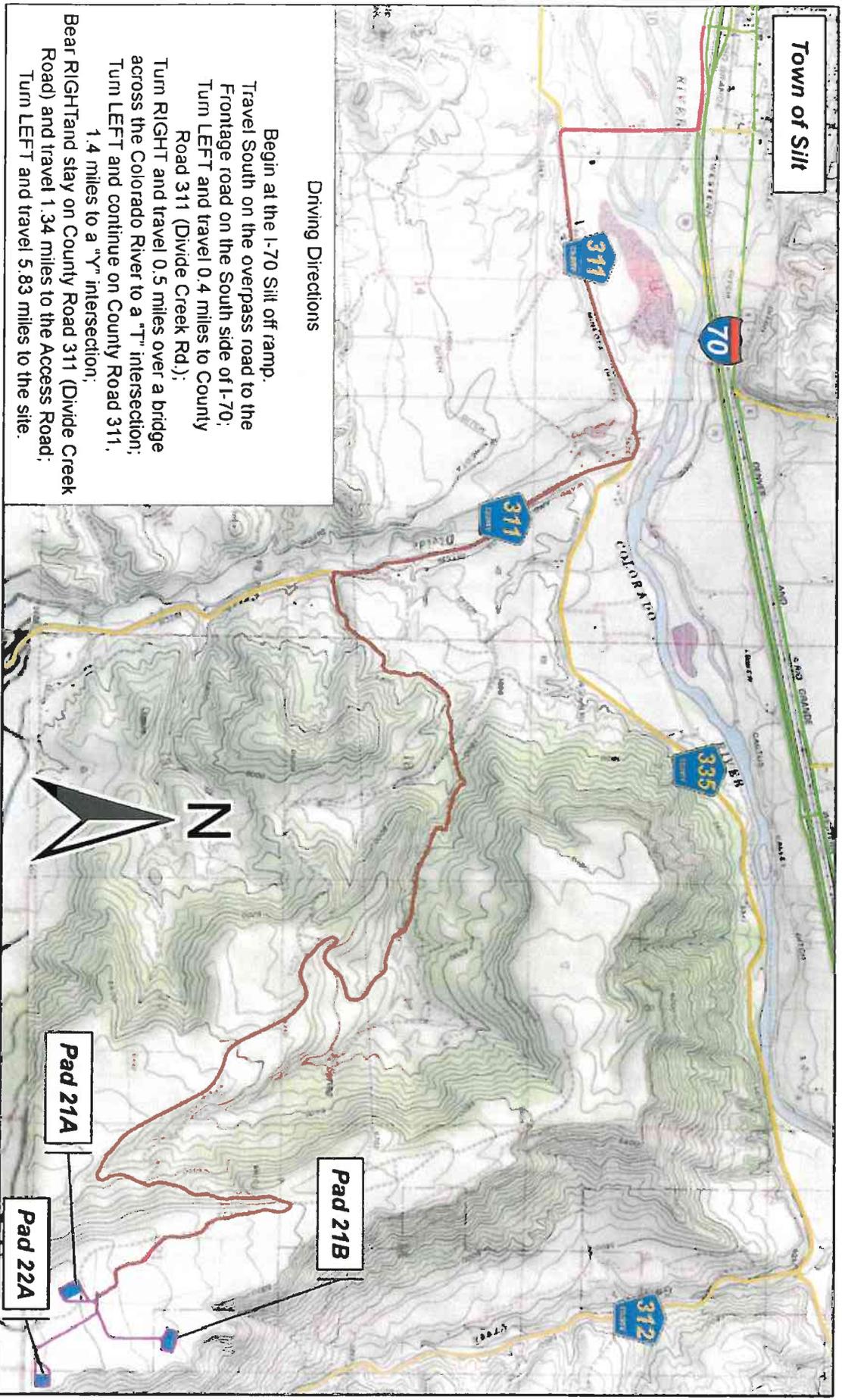
Job# 2010-112.001

Date: 4/22/2011

By: BG

File: APD-SWSE_Sec21

Town of Silt



Driving Directions

Begin at the I-70 Silt off ramp.
 Travel South on the overpass road to the Frontage road on the South side of I-70;
 Turn LEFT and travel 0.4 miles to County Road 311 (Divide Creek Rd.);
 Turn RIGHT and travel 0.5 miles over a bridge across the Colorado River to a "T" intersection;
 Turn LEFT and continue on County Road 311. 1.4 miles to a "Y" intersection;
 Bear RIGHT and stay on County Road 311 (Divide Creek Road) and travel 1.34 miles to the Access Road;
 Turn LEFT and travel 5.83 miles to the site.



SCHWUESER GORDON MEYER

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 Meeker, Colorado (970)878-5180

NO SCALE

Sheet 8 of 9

Pad 21A

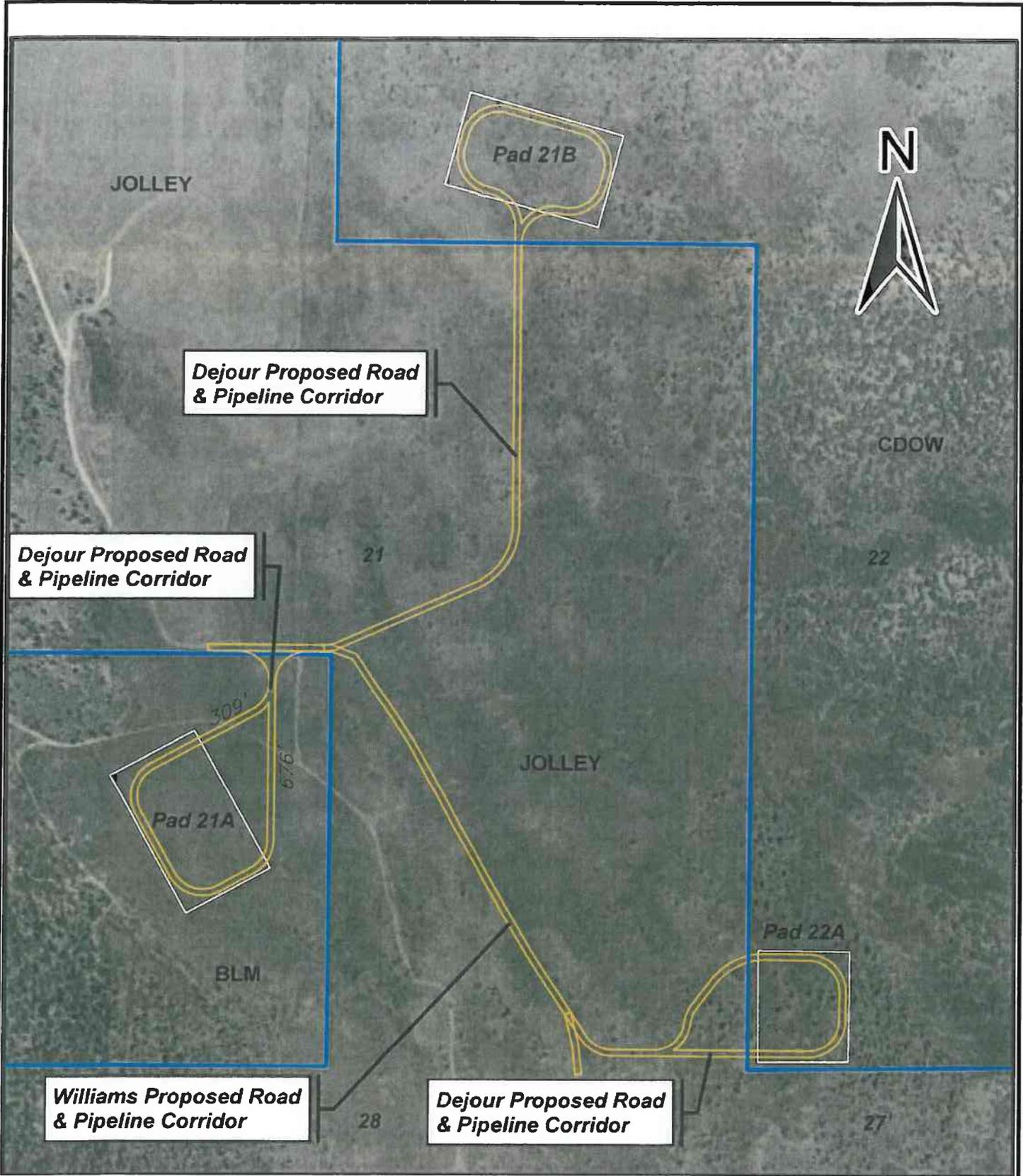
Dejour Energy (USA) Pad 21A Access Map
 Sec. 21, T.6S., R.91W., 6th P.M., Garfield County, CO

Job# 2010-112.001

Date: 4/22/11

Drc: BG

File: JM_Access



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 Meeker, Colorado (970)878-5180

NO SCALE
 Sheet 9 of 9
 Pad 21A

Dejour Energy (USA) – Access Map Detail
 Pad 21A – Section 21, T.6S., R.91W., 6th P.M.

Job# 2010-112.001 Date: 4/22/11 By: BG File: JM_Access

Surface Use Plan of Operations

Dejour East Kokopelli, Federal 21A Well Pad

T6S, R91W, Section 21, 6th PM

June 24, 2011

1) Existing Roads

- a) Access to the proposed Federal 21A well pad: After exiting I-70 at the Silt off ramp proceed on the overpass road to the Frontage Road on the south side of I-70. Turn left and travel in a general easterly direction along the frontage road 0.4 miles to the intersection with County Road 311 (Divide Creek Road). Turn right and travel in a general southerly direction along County Road 311 crossing a bridge over the Colorado River and proceeding 0.5 miles to the “T” intersection. Turn left and continue in a general easterly direction along County Road 311 for 1.4 miles to the “Y” intersection with County Road 335. Bear right and stay on County Road 311 and proceed in a general southerly direction for 1.34 miles to the Access Road (locally known as the Jolley Road). Turn left and proceed in a general southeasterly direction approximately 5.83 miles to the proposed well pad site (Sheet 8 of 9).
- b) The proposed well pad is located on Jolley Mesa. The county roads are paved and maintained year-round by the county. The Jolley Road is private and is maintained by local natural gas producers. In order to gain access for the use of the existing road and for the construction and use of the proposed road, Dejour will apply for a Right of Way (ROW) authorization that will grant access across the BLM administered lands involved in the proposed development. Dejour has already secured surface use agreements with all surface owners along the Jolley Road.

2) Planned Access Road (new)

- a) Road construction and upgrades will follow the *BLM Roads Manual 9113* (BLM 1985) with guidance provided by the *Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development* (The Gold book) Fourth Edition – revised 2007 (BLM 2007).

- b) The access road will accommodate the drilling rig and support equipment, and will have a gravel all-weather surface for ongoing development and production operations.
- c) The access road will be 603 feet long and 20 feet wide (see Sheet 2A of 9). A culvert will be installed between the Jolley Road and the well pad access road to accommodate road design requirements. No drainages will be crossed by the proposed access road.
- d) The proposed access road will be designed and maintained to an appropriate standard no higher than necessary to accommodate its intended function as described in the *Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development* (BLM and USFS, 2006 and in the *BLM Handbook 9113 - Roads Manual* (BLM 1985) under the direction of the BLM Authorized Officer (AO).
- e) **Road Width:** The access road will include twenty feet of road surface and any required ditches within a 50-foot right of way (ROW).
- f) **Maximum Grade:** The access road grade will be vary from flat to 8%.
- g) **Crown Design:** The access road will be crowned and ditched to control water runoff. A typical crown and ditch road cross section is included on Sheet 2C of 9.
- h) **Drainage and Ditch Design:** Site drainage will be controlled through Stormwater Management Best Management Practices (BMPs).
- i) **Revegetation of Disturbed Areas:** Revegetation of road ditches and cut and fill slopes will be completed during the interim reclamation activities to stabilize exposed soil and reduce sediment loss, reduce the growth of noxious weeds, reduce maintenance costs, maintain scenic quality and forage, and protect habitat. To ensure successful growth of plants and forbs, topsoil will be stripped and windrowed during road construction and re-spread to the greatest degree practical on cut slopes, fill slopes, and borrow ditches prior to seeding.

After well completion activities, Dejour will reduce the size of the well pad to the minimum surface area needed for production facilities and future workovers, while providing for reshaping and stabilizing the cut and fill slopes. In brief, interim reclamation will be accomplished by grading, leveling, and seeding as recommended by the BLM. Interim reclamation will maintain the disturbed area at the well pad to approximately 2.51 acres or less after well development as shown on Sheet 2G of 9.

The following is a summary of interim reclamation activities Dejour will implement after all wells have been completed on a location:

- The well location and surrounding areas(s) will be cleared of all debris, materials, and trash, as well as trash receptacles, not required for production operations. Solid waste and spoil materials will be disposed at an authorized local landfill.
- All pits, cellars, rat holes and other bore holes at drilling locations unnecessary for further lease operations will be back-filled to conform to surrounding terrain after the drilling rig is released.

Areas not necessary for production and future workovers will be reshaped to resemble the original landscape contour. Stockpiled topsoil will be redistributed and disked on the area to be reclaimed and re-seeded according to BLM recommendations.

Interim reclamation of that portion of the well pad and access road not needed for production facilities and operations will be reclaimed within ninety (90) days from the date of well completion, weather permitting. Dry or non-producing wells will be plugged and abandoned.

Some locations will require the use of special reclamation practices. These practices could include hydro-mulching, straw mat application on steeper slopes, fertilizing, seed-bed preparation, contour furrowing, watering, terracing, water barring, and the replacement of topsoil. All reclamation efforts will employ seed mixes as approved by the BLM. To prevent wildlife grazing pressure, the pad will be fenced for the first two growing seasons or until the seeded species are established.

- j) ***Location and Size of Road Structures:*** A culvert will be installed as the proposed access road leaves the Jolley Road. A standard 18-inch ADS culvert is planned at the county road and a standard 12-inch ADS culvert is planned for the drainage crossing as shown on Sheet 2A of 9. No bridges or other structures are necessary. No turn-outs will be required for the access road; the access road will be looped for safe access by larger vehicles.
- k) ***Fence Cuts and Cattleguards:*** The well pad will be fenced with an entrance gate and/or cattle guard on the proposed access road.
- l) ***Major Cuts and Fills:*** No major cuts and fills are planned for the proposed access road. The well pad will contain cuts and fills as shown on Sheet 2A of 9. Excess cut material from the well pad may be used for the road base as necessary.
- m) ***Storage of Topsoil:*** All topsoil will be removed from the well pad and access road and stockpiled. Stockpiled topsoil will be placed in windrows and berms to minimize the stockpile height to maintain soil vitality. The topsoil windrows and berms will be located off of the well pad within the access road loop.
- n) ***Type of Surfacing Materials:*** Pending approval of the surface owner (BLM), gravel will be placed on the running surface for all weather access. Road maintenance will be performed as needed to ensure safe travel.

3) Location of Existing Wells

- a) Sheet 3 of 9 shows all existing wells located within a one mile radius of the proposed well site.
- b) One water well is located within one mile of the proposed well pad. It is associated with the ranch house complex approximately 5000 feet to the east-northeast of the well pad.
- c) Fifteen well pads are shown on the existing well map containing one hundred and nine well bores.
- d) The nearest well is located 1,600 feet to the northwest of the proposed well pad.

4) Location of Existing and Proposed Production Facilities

- a) Sheet 2D of 9 in the plat package provides a schematic drawing of the well pad with the four proposed and four future well locations and production facilities. No equipment or facilities currently exist on the proposed well pad. Any changes in the dimensions of the well pad or layout of the facilities are subject to the Sundry Notice process. Well site equipment includes well heads, storage tanks, separation units, and telemetry equipment.
- b) A schematic facilities diagram as required by CFR 43, Part 3162.7-5(b.9.d) will be submitted to the BLM Colorado River Valley Field Office (CRVFO) within 30 days of the first installation or first production.
- c) Any venting or flaring of gas will be done in accordance with the Notice of Lessees (NTL) 4A process with prior approval from the CRVFO Petroleum Engineer.
- d) All tanks, separators, treaters, dehydrators, and other production equipment designed to contain any produced water, oil, condensate, or other fluid which may constitute a hazard to the public health or safety will be situated on and surrounded by a secondary containment structure made of an impervious material designed to contain the volume of the largest tank and leave a freeboard of at least one foot to prevent the migration of fluid from the production area.
- e) A sign with the name of the operator, lease serial number, well number, and surveyed description of the well will be maintained at the entrance to the well pad.
- f) All above ground, permanent structures (on site for more than 90 days) will be painted by the operator to blend with the natural color of the landscape using a color which simulates the "Standard Environmental Colors" designated by the Rocky Mountain Five State Interagency Committee. The color will be approved by the BLM AO. Equipment and structures otherwise subject to safety requirements will not meet this color scheme as required by regulation.
- g) A closed-loop system will be used during the drilling process to recycle drilling fluids and handle drill cuttings. However, if a reserve pit is necessary, Onshore Order Number 7 requirements will be met. Cuttings will be dried and buried in a trench on site. Water

produced from this well during testing and/or flowback operations will be contained in on-site storage tanks and trucked to a permitted disposal facility.

- h) Any necessary pits will be fenced to prevent wildlife entry until the pits are closed.
- i) Dejour will be responsible for controlling noxious and invasive weeds on disturbed areas. Dejour will coordinate with BLM to determine noxious weed management goals during facility operations, interim reclamations, final abandonment, and final reclamation. A weed inventory has been conducted to determine baseline weed conditions in the areas of proposed disturbance. The inventory will help in setting achievable goals and to determine success in meeting these weed control goals. Noxious weed species that will require treatment include those listed by the State of Colorado in the 2005 Colorado Noxious Weed Act and by Garfield County, which set forth the rules pertaining to prevention and control for noxious weeds. The reclamation seed mix will be approved by the BLM AO. It will include native shrubs as well as grasses and forbs as agreed upon with the BLM. The noxious weed control strategy may include weed treatment prior to the start of construction activities. Weed treatment may consist of annual noxious weed treatment as approved by the BLM AO. Dejour will coordinate noxious weed treatment applications with the BLM AO and Garfield County weed supervisor.

5) Location and Type of Water Supply

- a) Water will be purchased from the town of New Castle. The primary contact is Mr. John Wentzel, Director of Public Works, at (970) 989-0002. The water load-out facility is located at 801 West Main Street in New Castle. High turbidity and summer water restrictions may curtail usage of this water source on occasion, particularly in late May and early June. Flexibility in the drilling schedule should allow drilling activities to be scheduled around potential curtailment periods. The water will be hauled approximately seven miles to the drill site by tanker truck utilizing the access roads as shown in Sheet 8 of 9. No water hauling contractor information is available at this time.
- b) Approximately 5000 gallons of water will be used during the construction phase for dust control, approximately 400,000 gallons of water will be used during the drilling phase, and approximately 1.5 million gallons of water will be used during the completion (fracing) phase.
- c) A backup water source will be the City of Silt with bulk water available from a load-out facility located on Front Street (Highways 6 and 24) in the downtown area. The contact telephone number is (970) 876-2353.
- d) Dejour does not intend to drill a water supply well.

6) Construction Materials

- a) The access road will be constructed using excess native materials from well pad cuts for the road bed.
- b) The road will be surfaced with gravel purchased and hauled from a local permitted gravel source. It is anticipated that the aggregate will be purchased from Flag Sand and Gravel at 1412 County Road 311 in New Castle. The facility is located approximately six road miles from the proposed well pad. The Flag contact telephone number is (970) 876-2397.
- c) Back up gravel sources include Silt Sand & Gravel at (970) 876-0154 and Grant Brothers Construction at (970) 625-9120 located in Silt, and United Companies at (970) 625-3738 and Lafarge North America at (970) 625-0161 located in Rifle.
- d) No topsoil will be used in construction activities.

7) Methods for Handling Waste

- a) Trash will be contained in a trash cage or trash containers. All trash will be hauled to an approved disposal site as necessary. Trash containers will be wildlife proof in accordance with BLM standards.
- b) Use of a closed-loop drilling system will minimize waste. No reserve pits are planned, but may be added if necessary. All drilling fluids and cuttings will be disposed at a permitted facility.
- c) Chemical portable toilets will be furnished during the construction and drilling phases and their contents will be hauled to an approved disposal site by a licensed contractor. Sewage will be disposed in accordance with State of Colorado Department of Health and Environment (CDPHE) regulations. No sewage boreholes will be allowed.
- d) Any spills of oil, gas, produced water, or other produced fluids will be cleaned up immediately and removed to an approved disposal facility.

8) Ancillary Facilities

- a) See sheet 9 of 9 in the APD plat package for a map of the proposed natural gas pipeline.
 - i) The proposed natural gas pipeline will be built if the proposed wells go into commercial production. A Sundry Notice will precede any pipeline construction.
 - ii) The proposed natural gas pipeline will be approximately 1000 feet in length and will connect to an existing Williams pipeline located in Section 21, Township 9 South, Range 91 West.

- iii) The proposed natural gas pipeline will be up to six inches in diameter, constructed of steel or poly-pipe, and buried at least four feet deep.
- b) No camps, airstrips, or other facilities will be necessary.

9) Well Site Layout

- a) The proposed well pad is rectangular in shape with dimensions of approximately 300 feet by 500 feet, see Sheet 2A of 9.
- b) A relatively flat pad design will assist in keeping stormwater runoff from draining off the well pad. The well pad will be bermed and slightly contoured to direct stormwater runoff to a detention basin (see Sheet 2D of 9).
- c) The topsoil will be stockpiled on a site adjacent to the well pad to maintain topsoil height to less than three feet for soil vitality as well as to act as a berm to control stormwater runoff.
- d) The outfall point from the well pad to the stormwater detention basin will be armored with riprap to decrease runoff water velocity and to control erosion.
- e) See Sheet 2A of 9 for the proposed well pad layout during drilling and production activities. See Sheet 2D of 9 for proposed stormwater detention basin location.
- f) See Sheets 6 and 7 of 9 for photographs of the proposed well pad location, center stake, and boundary stakes.

10) Plans for Surface Reclamations

- a) Construction of the well pad is expected to result in 4.42 acres of short term and long term disturbance. The short term reclamation goal will be to stabilize the disturbed areas as quickly as possible. The long term reclamation goal will be to return the land surface to conditions similar to those that existed prior to the disturbance. All reclamation will be in accordance with BLM requirements. Approved seed mixtures and rates, soil salvage and protection measures, and noxious weed control will be determined in consultation with and at the recommendation of the BLM AO.
- b) All top soil will be salvaged and stockpiled for reclamation operations. Less than six inches of viable topsoil is expected to be available for salvage. Topsoil and separate subsoil piles would be located to minimize erosion to local drainage channels. Interim reclamation will be performed within 30 days of operations curtailment, weather permitting.
- c) Seeding will occur in the first seasonal opportunity when adequate moisture is available (generally after October 15th and until the soil is frozen, and again after the ground has thawed but before May 15th). Spring seeding will be conducted only if Fall seeding is not

feasible. Seed mixes used for reclamation will be in accordance with BLM reclamation requirements. Seed mixes and soil amendments (if allowed) would be free of noxious weeds. Noxious weeds will be treated in accordance with the BLM AO recommendations.

- d) Upon completion of production activities final reclamation will be initiated. Reclamation activities will include BMPs such as:
 - i) Complete clean up of the disturbed areas including the well pad and access road;
 - ii) Restoration of the disturbed areas to the approximate surface contours that existed prior to construction;
 - iii) Ripping of compacted areas;
 - iv) Replacement of topsoil over all disturbed areas;
 - v) Seeding of reclaimed areas with the BLM approved seed mixture;
 - vi) Fertilizing may be utilized if it is considered necessary by the BLM AO;
 - vii) Installation of a fence around the reclaimed area to keep out wildlife until vegetation is established in accordance with the BLM AO and BLM standards.

11) Surface Ownership

- a) BLM has ownership of all surface associated with the well pad and almost all of the access road.
- b) A small portion of the access road will lie on Jolley family surface ownership and will be covered under the current surface use agreement.

12) Other Information

- a) Biological and botanical surveys were completed in July 2010.
- b) A cultural resource survey was completed in July 2010.
- c) A wetlands survey was completed in July 2010
- d) The BLM has determined that a paleontological resource survey is not necessary.
- e) A Colorado Stormwater Management Permit and Plan are required and will be in force during the project activities.
- f) Surface use agreements have been negotiated with all surface owners.

13) Operator's Representative and Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this APD package are, to the best of my knowledge, true and correct;

and that the work associated with the operations proposed herein will be performed by Dejour Energy (USA) Incorporated and its contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under BLM bond number COB000239. This statement is subject to the provisions of 18 U.S.C. subsection 1001 for the filing of a false statement.

Executed this 14th day of November, 2011

Gary Haefele, Operations Manager

Dejour Energy (USA) Incorporated
1401 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 296-3535

DRILLING PLAN

PWD Federal 21-6-91

Sec 21, T6S-R91W,

BLM Lease # COC-066370

Dejour Energy (USA) presents the following Drilling Plan for the PWD Federal 21-6-91 well with a bottom hole location at lat. 39.508131143N, long. -107.5559195237W and surface location at lat. 39.508541N, long. -107.556063; located in the southeast quarter of Section 21, T6S, R91W. This well is located on BLM managed lands and is authorized under lease COC-066370. The proposed well will be drilled to a TD 9054 feet Measured Depth (MD) and a True Vertical Depth of 8861 feet (TVD).

In accordance with the requirements of Onshore Oil and Gas Order Number 1 (43 CFR 3162.3), the following detailed drilling plan is provided.

Geologic Information for the Drilling Plan

Formation Tops PWD Fed 21-6-91

Formation	Sea Level Elevation	MD	TVD from Surface Pad
Wasatch Formation	Ground 7008	0	0
Top Mesaverde Williams Fork SS	2575	4627	4433
Top Rollins SS	-980	8102	7908
Top Cozzette SS	-1476	8678	8484
Top Corcoran SS	-1683	8985	8691
Top Mancos Shale	-1853	9054	8861

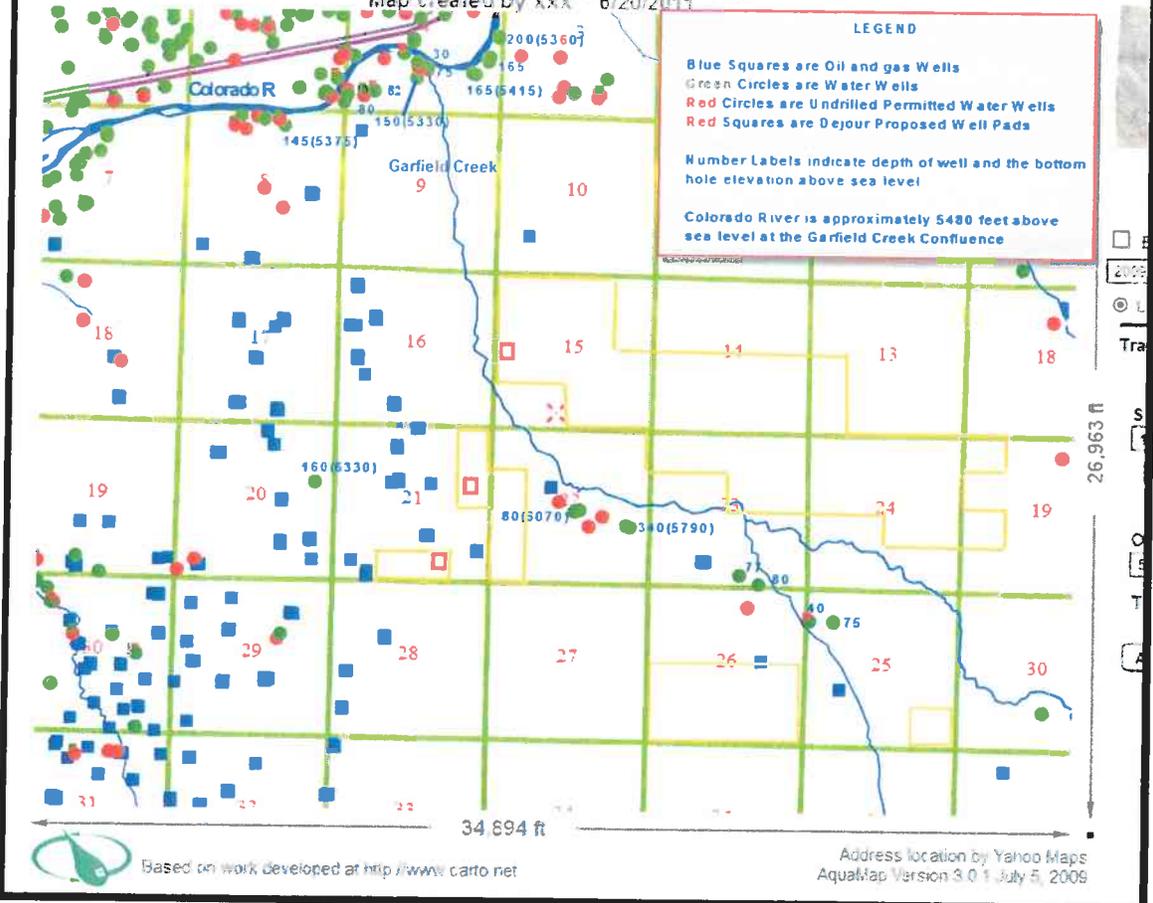
Depth to Oil, Gas, Water & Minerals – PWD Fed 21-6-91

Substance	Formation	Sea Level Elevation	MD	TVD from Surface Pad
Water	Wasatch	7008	<501	<500
Gas	Williams Fork	2575	4627	4433
Water	Rollins SS	-980	8102	7908
Water	Cozzette SS	-1476	8678	8484
Water	Corcoran SS	-1683	8985	8691
Shale	Mancos Shale	-1853	9054	8861

Note: The nearest water wells range, in bottom hole depths, from 5330 feet to 6330 feet above sea level. Casing design is to a consistent depth of 5200 feet above sea level.

AQUAMAP
Colorado Division of Water Resources
Department of Natural Resources

Map created by xxx 6/20/2011



Based on work developed at <http://www.carto.net>

Address location by Yahoo Maps
 AquaMap Version 3.0.1 July 5, 2006

Well Control Equipment for all wells drilled off of Pad 21a

1. Dejour Energy (USA) (Dejour) minimum specifications for pressure control are as follows:

Depth Range	Well Control Equipment
0 - 1500' (surface interval)	No Control
1500' – TD	11", 5000 psi ram type preventers with one set of blind rams, one set of pipe rams and 5000 psi annular type preventer with choke manifold as per attached diagram.
No abnormal temperatures or H ₂ S gas are anticipated. No over-pressured intervals are expected.	

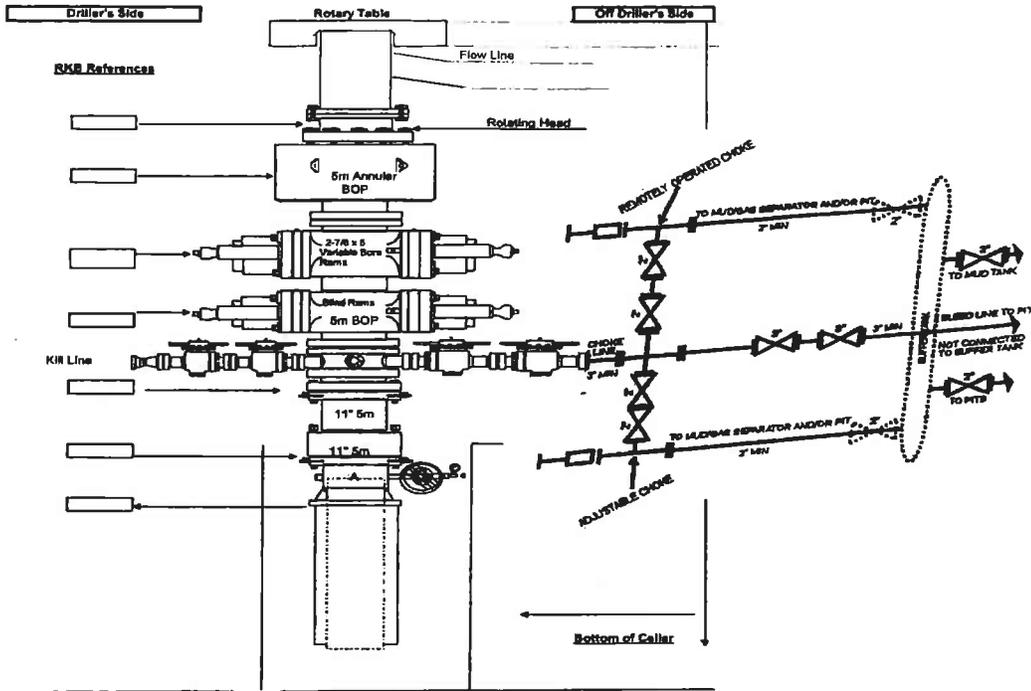
2. Dejour will comply with all requirements pertaining to well control as listed in Onshore Oil and Gas Order No. 2 as well as Colorado Oil and Gas Conservation Commission (COGCC) Rules and Regulations.
3. Dejour will comply with Onshore Oil and Gas Order No. 2 as well as COGCC regulations concerning the testing of blow out prevention (BOP) equipment to include the following:
- a. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70% of internal yield pressure of casing if BOP stack is not isolated from casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off of pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10% in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.
 - b. All BOP tests will be performed by a tester and not by the rig pumps using clear water or an appropriate clear liquid for subfreezing temperatures. Annular type preventers shall be tested to 50% of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.
 - c. As a minimum, the above test shall be performed:
 - i. When initially installed;
 - ii. Whenever any seal subject to test pressure is broken;
 - iii. Following related repairs;
 - iv. At 30-day intervals; and
 - v. Valves shall be tested from working pressure side during BOP tests with all down-stream valves open.
 - d. When testing the kill line valve(s), the check valve shall be held open or the ball removed.
 - e. Annular preventers shall be functionally operated at least weekly.
 - f. Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

- g. A BOP pit level drill shall be conducted weekly by each drilling crew.
- h. Pressure tests shall apply to all related well control equipment.
- i. All of the above described tests and/or drills shall be recorded in the drilling log.
- j. See Figure 3 for a typical BOP diagram.

Figure 3: Typical Blowout Preventer Diagram

5,000 psi BOP stack and 5,000 psi Choke Manifold will be minimum equipment. The actual dimensions and specifications will be determined when the drilling rig is selected.

5M BOP Stack Schematic



5M psi system:

- Double ram with blind rams and pipe rams*
- Annular Preventers
- Drilling spool, or blowout preventer with 2 side outlets (choke side shall be a 3-inch minimum diameter, kill side shall be at least 2-inch diameter)*
- Kill line (2 inch minimum)
- A minimum of 2 choke line valves (3 inch minimum)*
- 3 inch diameter choke line
- 2 kill line valves, one of which shall be a check valve (2 inch minimum)*
- 2 chokes (refer to diagram in Attachment 1)
- Pressure gauge on choke manifold
- Upper kelly cock valve with handle available
- Safety valve and subs to fit all drill string connections in use
- All BOPE connections subjected to well pressure shall be flanged, welded, or clamped*
- Fill-up line above the uppermost preventer

Casing Program

Hole Size (in)	Casing/Tubing Size (in)	Wt. (#/ft)	Grade	Connection	Length (ft)	Setting MDepth (ft)
12 ¼	8 5/8	24	J-55	STC	1500	1500
7 7/8"	4 ½"	11.6	N-80	LTC	9050	9050

8 5/8", 24#, J55, STC	Collapse	Burst	Tensile	ID	Make-Up Torque Ft-lbs
100%	1,370 psi	2,950 psi	244,000 lbs	8.097"	Min - 1830
80%	1,096 psi	2,360 psi	195,200 lbs	7.97" drift	Opt - 2440 Max - 3505

The surface casing string 8 5/8" will be centralized using bow spring centralizers. The bottom (3) joints of casing will be centralized, from that point up, one centralizer will be run on every third joint to surface.

4 ½ ", 11.6#, N-80, LTC	Collapse	Burst	Tensile	ID	Make-Up Torque Ft-lbs
100%	6,350 psi	7,780 psi	267,000 lbs	4.000"	Min - 1710
80%	5,080 psi	6,224 psi	213,600 lbs	3.875" drift	Opt - 2280 Max - 2850

The production casing 4 ½" will be centralized using bow spring centralizers as follows: Every joint for first 3 joints, every other joint to 1300' and every third joint from 1300 ft to surface.

I. Cementing Program Casing and Cementing Program:

B. Surface Casing

1. Hole Size: 12-1/4"
2. Casing: Approximately 1500' of 8-5/8", 24#, J-55, ST&C casing.
3. Casing Hardware: 1 Guide Shoe, 1 Float Collar, 1 Stop Ring, 19 Centralizers, 1 Thread Lock, 2 Cement Baskets and 1 Top Plug.
4. Cement: Calculate for 75% excess to bring cement to surface with casing on bottom. Cement as follows:
Lead: 800 sks Class G w/ 2% Gel & 2% CaCl₂, 14.8 ppg, 1.34 ft³/sk yld
Top job as required to fill 8-5/8" x 12-1/4" annulus to surface with Class G cement containing 2% Calcium Chloride. Wait on cement four hours before slacking off casing.

C. Production Casing:

1. Hole Size: 7-7/8"
2. Casing: Approximately 9050' of 4-1/2", 11.6#, N-80, LT&C casing.
3. Casing Hardware: 1 Float Shoe, 1 Float Collar, 1 Stop Ring, 144 Centralizers, 1 Thread Lock, 1 Bottom Plug, 2 Cement Baskets and 1 Top Plug.
4. Cement: 15% excess cement over hole volume to bring top of cement to a depth of 1300' (200' inside surface casing). Cement as follows:
Lead: 240 sks Premium Type V Cmt w/ 16% gel, 11.0 ppg, 1.70 ft³/sk yld
Tail: 425 sks Premium Lite w/ 65% Class G, 35% Poz w/ 6% Gel, 13.1 ppg, 3.82 ft³/sk yld

A water quality analysis will be performed on the mix water used in cementing to ensure adequate cement properties. This analysis will be submitted to the BLM.

Mud Program

Interval	Mud Description	Weight	Viscosity	Wtr Loss
Surface to 1500' MD	LSND	8.4-8.6	30 - 45	Less than 8 - 12 cc's
1500' to 9054' MD ' 8861' TVD	LSND	8.4-9.4	30 - 45	Less than 10 cc's at TD

Both electrical and mechanical fluid monitoring will be used to monitor the drilling fluid in the well bore. Each tank volume, flow rate, as well as total hole and surface volumes will be monitored on a continuous basis using a Mud Monitoring system.

A closed loop system shall consist of steel tanks and solids control equipment to hold the drilling fluid while the cuttings are routed to the cuttings trench.

Products to be used:

<u>Product</u>	<u>Description</u>	<u>Function</u>	<u>Concentration</u>
<i>New Bar</i>	Barium Sulfate	Weighting Material	As required for slugs and mud weight
<i>NewGel</i>	Bentonite	Viscosifier	15-20 ppb
<i>Caustic Soda</i>	Sodium Hydroxide	Alkalinity Control	0.15-0.25 ppb
<i>NewPIPA</i>	PIPA	Viscosifier / Emulsifier	0.5 ppg
<i>NewPac</i>	Polyanionic Cellulose	Fluid Loss	0.5-1.0 ppb
<i>Soda Ash</i>	NA ₂ CO ₃	Calcium Precipitant	As required
<i>Maxiseal</i>	LCM Blend	LCM Material	As required
<i>Sawdust</i>	Wood Fibers	LCM Material	As required
<i>NewCarb</i>	Calcium Carbonate	LCM Material	As required
<i>DynaFiber</i>	Microcellulose Fiber	LCM	As required
<i>NewEase</i>	Proprietary	ROP enhancer	As required
<i>KCL</i>	Potassium Chloride	Inhibitor	2%

Logging Program

Type Log Suite	Interval Top	Interval Bottom
Resistivity	Base of surface casing	TD
Density-Neutron	Base of Surface Casing	TD
Gamma Ray	Surface	TD

Coring Program

Core No.	Formation	Est. Depth ft	Core Length (ft)
None			

Water Source

The freshwater required for the drilling operation will be trucked in from the nearest local water source. Estimated water usage is ~2,000 bbls.

Additional Information

- 1) Normal pressures are expected.
- 2) Maximum expected bottom hole pressure: 3837 psi
- 3) Maximum expected bottom hole temperature: 200 deg F
- 4) H2S is not expected.
- 5) 4 ½" 11.6# N-80 Test Casing Pressure 6200 psi
- 6) Frac Pressure 5900 psi
- 7) The well will be directionally drilled. Please see Directional vertical section plan as well as the side view along with the trajectory for deviation program. Maximum angle is 30° with an Azimuth of 258.3°, KOP will be at 300 ft.
- 8) Bottom hole target will be a 100' radius.

Attached to Form 3160-3



Weatherford

Drilling Services

PROPOSAL



DEJOUR ENERGY INC.
RESOURCEFUL ENTERPRISING

DEJOUR ENERGY INC.

21A PAD
PWD 21-6-91
GARFIELD COUNTY, COLORADO

PLAN 1

SEPTEMBER 8, 2011

Weatherford International Ltd.
410 17th Street, Suite 400
Denver, Colorado 80202
+1.303.825.6558 Main
+1.303.825.2927 Fax
www.weatherford.com



Project: GARFIELD COUNTY CO
 Site: PAD 21A
 Well: PWD 21-6-91
 Wellbore: PWD 21-6-91
 Design: Design #1
 Latitude: 39°30' 30.746 N
 Longitude: 107°33' 21.828 W
 GL: 7008.00
 KB: WELL @ 7028.00ft (Original Well Elev)



Weatherford

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
3	1200.00	30.00	265.00	1154.93	-22.30	-254.90	3.00	265.00	255.00	
4	1311.04	30.00	258.30	1251.13	-30.35	-309.75	3.01	-92.96	310.48	
5	1973.98	30.00	258.30	1825.26	-97.54	-634.30	0.00	0.00	641.69	
6	2969.22	0.00	0.00	2775.66	-149.16	-883.64	3.01	180.00	896.14	
7	9054.56	0.00	0.00	8861.00	-149.16	-883.64	0.00	0.00	896.14	PBHL PWD 21-6-91

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N-S	+E-W	Latitude	Longitude	Shape
PBHL PWD 21-6-91	8861.00	-149.16	-883.64	39°30' 29.272 N	107°33' 33.103 W	Circle (Radius: 100.00)

WELL DETAILS: PWD 21-6-91

+N-S	+E-W	Northing	Ground Level:	7008.00	Latitude	Longitude	Slot
0.00	0.00	1616679.11	Easting	2419930.83	39°30' 30.746 N	107°33' 21.828 W	

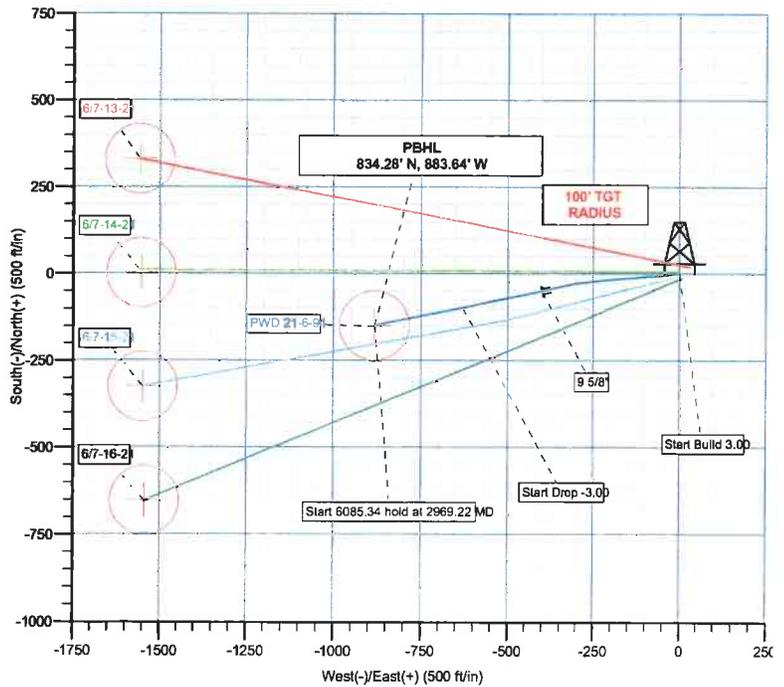
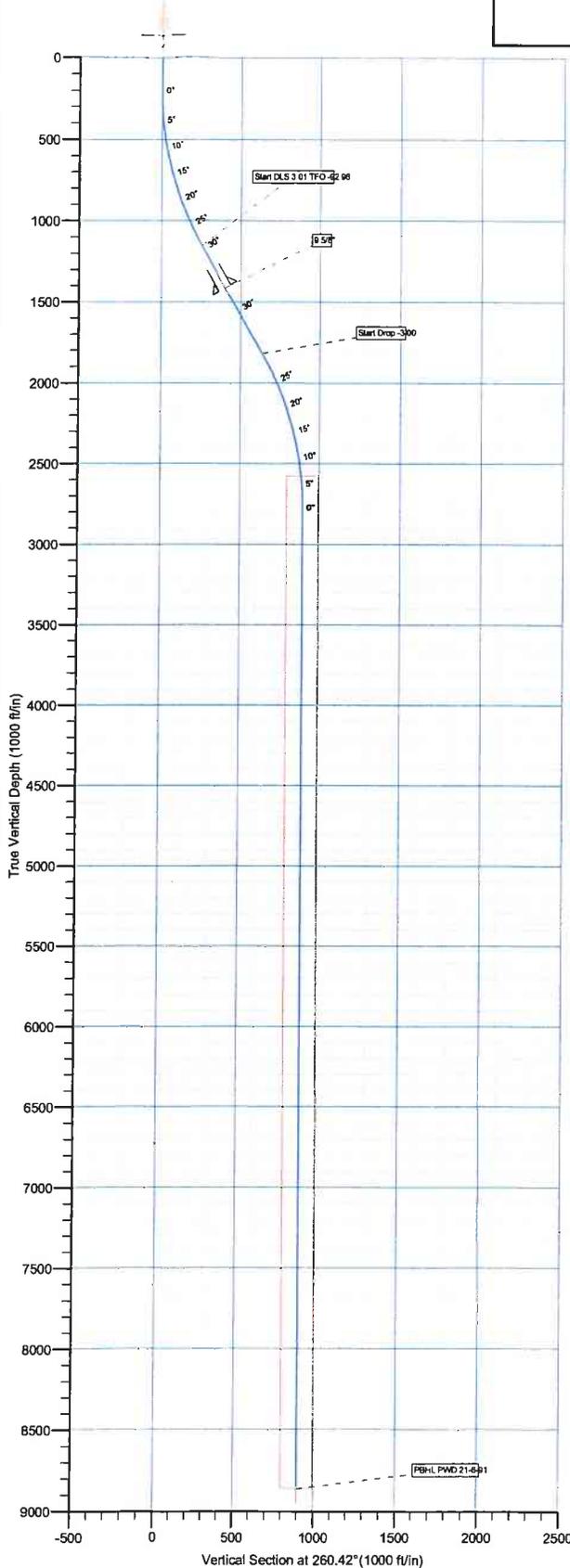
PROJECT DETAILS: GARFIELD COUNTY CO

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Central Zone
 System Datum: Mean Sea Level



Azimuths to True North
 Magnetic North: 10.12°

Magnetic Field
 Strength: 52259.9nT
 Dip Angle: 65.85°
 Date: 9/8/2011
 Model: BGGM2010



Plan: Design #1 (PWD 21-6-91/PWD 21-6-91)

Created By: TIFFANY CHIU Date: 13:51, September 08 2011



DEJOUR ENERGY COMPANY

GARFIELD COUNTY CO

PAD 21A

PWD 21-6-91

PWD 21-6-91

Design #1

Anticollision Report

08 September, 2011



Weatherford®



Company:	DEJOUR ENERGY COMPANY	Local Co-ordinate Reference:	Well PWD 21-6-91
Project:	GARFIELD COUNTY CO	TVD Reference:	WELL @ 7028.00ft (Original Well Elev)
Reference Site:	PAD 21A	MD Reference:	WELL @ 7028.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	PWD 21-6-91	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	PWD 21-6-91	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference	Design #1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD Interval 100.00ft
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 10,000.00ft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Elliptical Conic

Survey Tool Program	Date	9/8/2011
From (ft)	To (ft)	Survey (Wellbore)
0.00	9,054.04	Design #1 (PWD 21-6-91)
		Tool Name
		MWD
		Description
		MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
PAD 21A						
6/7-13-21 - 6/7-13-21 - Design #1	200.00	200.00	39.99	39.37	63.549	CC
6/7-13-21 - 6/7-13-21 - Design #1	400.00	403.60	40.28	38.74	26.207	ES
6/7-13-21 - 6/7-13-21 - Design #1	1,200.00	1,203.63	99.02	86.89	8.163	SF
6/7-14-21 - 6/7-14-21 - Design #1	200.00	200.00	8.00	7.37	12.707	CC
6/7-14-21 - 6/7-14-21 - Design #1	300.00	299.79	8.20	7.14	7.726	ES
6/7-14-21 - 6/7-14-21 - Design #1	1,200.00	1,197.49	30.08	18.64	2.631	SF
6/7-15-21 - 6/7-15-21 - Design #2	200.00	200.00	8.00	7.37	12.708	CC
6/7-15-21 - 6/7-15-21 - Design #2	300.00	300.11	8.38	7.32	7.910	ES
6/7-15-21 - 6/7-15-21 - Design #2	2,200.00	2,200.66	57.68	25.98	1.820	SF
6/7-16-21 - 6/7-16-21 - Design #1	200.00	200.00	15.99	15.37	25.415	CC, ES
6/7-16-21 - 6/7-16-21 - Design #1	2,200.00	2,190.04	188.68	156.80	5.919	SF

Offset Design	PAD 21A - 6/7-13-21 - 6/7-13-21 - Design #1													Offset Site Error:	0.00 ft
Survey Program:	0-MWD													Offset Well Error:	0.00 ft
Reference	Offset				Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	59.99	20.00	34.63	39.99						
100.00	100.00	100.00	100.00	0.09	0.09	59.99	20.00	34.63	39.99	39.81	0.18	222.422			
200.00	200.00	200.00	200.00	0.31	0.31	59.99	20.00	34.63	39.99	39.37	0.83	63.549	CC		
300.00	299.95	301.86	301.79	0.53	0.54	153.62	20.61	31.52	40.03	38.96	1.07	37.291			
400.00	399.63	403.60	403.08	0.77	0.80	149.55	22.43	22.22	40.28	38.74	1.54	26.207	ES		
500.00	498.77	505.13	503.37	1.06	1.12	142.97	25.45	8.81	41.13	39.05	2.08	19.774			
600.00	597.08	606.33	602.17	1.42	1.54	134.41	29.65	-14.60	43.14	40.35	2.79	15.466			
700.00	694.31	707.10	699.03	1.88	2.07	124.82	34.98	-41.83	46.94	43.19	3.75	12.508			
800.00	790.18	807.35	793.52	2.43	2.73	115.34	41.41	-74.67	52.98	47.98	5.00	10.596			
900.00	884.43	907.00	885.23	3.09	3.51	106.83	48.89	-112.88	61.45	54.95	6.50	9.451			
1,000.00	976.81	1,005.96	973.79	3.86	4.42	99.67	57.37	-156.17	72.30	64.09	8.21	8.804			
1,100.00	1,067.06	1,104.61	1,059.81	4.75	5.45	94.28	66.71	-203.89	85.25	75.15	10.10	8.438			
1,200.00	1,154.93	1,203.63	1,145.37	5.75	6.51	92.77	76.22	-252.48	99.02	86.89	12.13	8.163	SF		
1,300.00	1,241.56	1,302.24	1,230.77	6.75	7.59	98.42	85.70	-300.88	115.52	101.41	14.11	8.167			
1,400.00	1,328.17	1,400.30	1,315.88	7.75	8.66	99.13	95.12	-348.99	135.14	119.00	16.13	8.375			
1,500.00	1,414.77	1,498.35	1,400.60	8.82	9.74	99.22	104.54	-397.11	154.78	138.54	18.24	8.485			
1,600.00	1,501.38	1,596.40	1,485.51	9.91	10.82	99.30	113.97	-445.23	174.43	154.07	20.36	8.568			
1,700.00	1,587.98	1,694.45	1,570.42	10.99	11.90	99.35	123.39	-493.34	194.08	171.60	22.46	8.633			
1,800.00	1,674.59	1,792.50	1,655.33	12.08	12.99	99.40	132.81	-541.46	213.72	189.12	24.61	8.686			
1,900.00	1,761.19	1,890.55	1,740.24	13.17	14.07	99.44	142.23	-589.57	233.37	206.64	26.73	8.729			
2,000.00	1,847.89	1,988.61	1,825.16	14.24	15.16	99.59	151.65	-637.69	252.99	224.14	28.85	8.770			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Company: DEJOUR ENERGY COMPANY
Project: GARFIELD COUNTY CO
Reference Site: PAD 21A
Site Error: 0.00ft
Reference Well: PWD 21-6-91
Well Error: 0.00ft
Reference Wellbore: PWD 21-6-91
Reference Design: Design #1

Local Co-ordinate Reference: Well PWD 21-6-91
TVD Reference: WELL @ 7028.00ft (Original Well Elev)
MD Reference: WELL @ 7028.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 2003.21 Single User Db
Offset TVD Reference: Offset Datum

Offset Design PAD 21A - 6/7-13-21 - 6/7-13-21 - Design #1													Offset Site Error: 0.00 ft
Survey Program: 0-MWD													Offset Well Error: 0.00 ft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
2,100.00	1,936.41	2,086.70	1,910.11	15.09	16.25	99.35	161.08	-685.83	272.01	241.24	30.77	8.840	
2,200.00	2,027.26	2,184.63	1,994.92	15.85	17.34	98.16	170.49	-733.89	290.34	257.75	32.58	8.911	
2,300.00	2,120.18	2,282.13	2,079.35	16.53	18.42	96.20	179.86	-781.73	308.34	274.10	34.24	9.004	
2,400.00	2,214.91	2,378.92	2,163.17	17.11	19.49	93.64	189.16	-829.23	326.55	290.84	35.71	9.145	
2,500.00	2,311.19	2,474.73	2,246.15	17.61	20.56	90.61	198.36	-876.25	345.58	308.66	36.92	9.359	
2,600.00	2,408.76	2,569.31	2,328.05	18.01	21.61	87.24	207.45	-922.66	366.13	328.27	37.86	9.671	
2,700.00	2,507.34	2,662.39	2,408.65	18.32	22.64	83.69	216.39	-968.33	388.90	350.41	38.49	10.104	
2,800.00	2,606.66	2,753.71	2,487.74	18.55	23.66	80.07	225.17	-1,013.15	414.56	375.74	38.82	10.679	
2,900.00	2,706.45	2,843.02	2,565.08	18.70	24.65	76.50	233.75	-1,056.97	443.72	404.85	38.87	11.414	
3,000.00	2,806.44	2,930.18	2,640.57	18.78	25.62	-28.91	242.13	-1,099.75	476.78	438.17	38.61	12.349	
3,100.00	2,906.44	3,016.78	2,715.56	18.85	26.59	-32.91	250.45	-1,142.24	512.83	474.78	38.06	13.475	
3,200.00	3,006.44	3,103.38	2,790.56	18.92	27.55	-36.43	258.77	-1,184.74	551.07	513.57	37.49	14.697	
3,300.00	3,106.44	3,189.98	2,865.55	18.99	28.51	-39.54	267.09	-1,227.24	591.06	554.10	36.98	15.994	
3,400.00	3,206.44	3,276.58	2,940.55	19.07	29.48	-42.28	275.41	-1,269.73	632.48	596.02	36.46	17.347	
3,500.00	3,306.44	3,363.18	3,015.54	19.14	30.44	-44.71	283.73	-1,312.23	675.06	639.04	36.02	18.740	
3,600.00	3,406.44	3,448.83	3,104.70	19.22	31.53	-47.23	293.51	-1,362.15	718.32	682.78	35.54	20.211	
3,700.00	3,506.44	3,535.54	3,199.29	19.30	32.76	-50.01	306.08	-1,426.37	757.08	722.14	34.94	21.888	
3,800.00	3,606.44	3,622.24	3,291.46	19.39	33.77	-52.08	316.99	-1,482.09	788.45	753.91	34.55	22.823	
3,900.00	3,706.44	3,709.39	3,385.16	19.47	34.52	-53.50	325.38	-1,524.92	811.24	776.88	34.37	23.806	
4,000.00	3,806.44	4,132.58	3,738.32	19.56	34.98	-54.29	330.45	-1,550.82	824.50	790.12	34.38	23.981	
4,100.00	3,906.44	4,300.90	3,906.44	19.65	35.15	-54.48	331.75	-1,557.46	827.84	793.27	34.57	23.949	
4,200.00	4,006.44	4,400.90	4,006.44	19.75	35.21	-54.48	331.75	-1,557.46	827.84	793.07	34.77	23.812	
4,300.00	4,106.44	4,500.90	4,106.44	19.84	35.26	-54.48	331.75	-1,557.46	827.84	792.87	34.97	23.674	
4,400.00	4,206.44	4,600.90	4,206.44	19.94	35.32	-54.48	331.75	-1,557.46	827.84	792.66	35.18	23.534	
4,500.00	4,306.44	4,700.90	4,306.44	20.04	35.38	-54.48	331.75	-1,557.46	827.84	792.45	35.39	23.392	
4,600.00	4,406.44	4,800.90	4,406.44	20.14	35.44	-54.48	331.75	-1,557.46	827.84	792.23	35.61	23.250	
4,700.00	4,506.44	4,900.90	4,506.44	20.24	35.50	-54.48	331.75	-1,557.46	827.84	792.01	35.83	23.106	
4,800.00	4,606.44	5,000.90	4,606.44	20.34	35.56	-54.48	331.75	-1,557.46	827.84	791.78	36.05	22.962	
4,900.00	4,706.44	5,100.90	4,706.44	20.45	35.62	-54.48	331.75	-1,557.46	827.84	791.56	36.28	22.816	
5,000.00	4,806.44	5,200.90	4,806.44	20.56	35.69	-54.48	331.75	-1,557.46	827.84	791.32	36.52	22.670	
5,100.00	4,906.44	5,300.90	4,906.44	20.67	35.75	-54.48	331.75	-1,557.46	827.84	791.08	36.75	22.524	
5,200.00	5,006.44	5,400.90	5,006.44	20.78	35.82	-54.48	331.75	-1,557.46	827.84	790.84	37.00	22.376	
5,300.00	5,106.44	5,500.90	5,106.44	20.90	35.89	-54.48	331.75	-1,557.46	827.84	790.60	37.24	22.229	
5,400.00	5,206.44	5,600.90	5,206.44	21.01	35.96	-54.48	331.75	-1,557.46	827.84	790.35	37.49	22.081	
5,500.00	5,306.44	5,700.90	5,306.44	21.13	36.03	-54.48	331.75	-1,557.46	827.84	790.09	37.74	21.933	
5,600.00	5,406.44	5,800.90	5,406.44	21.25	36.10	-54.48	331.75	-1,557.46	827.84	789.84	38.00	21.785	
5,700.00	5,506.44	5,900.90	5,506.44	21.37	36.18	-54.48	331.75	-1,557.46	827.84	789.58	38.26	21.637	
5,800.00	5,606.44	6,000.90	5,606.44	21.49	36.25	-54.48	331.75	-1,557.46	827.84	789.31	38.52	21.489	
5,900.00	5,706.44	6,100.90	5,706.44	21.62	36.33	-54.48	331.75	-1,557.46	827.84	789.05	38.79	21.341	
6,000.00	5,806.44	6,200.90	5,806.44	21.75	36.40	-54.48	331.75	-1,557.46	827.84	788.78	39.06	21.193	
6,100.00	5,906.44	6,300.90	5,906.44	21.87	36.48	-54.48	331.75	-1,557.46	827.84	788.50	39.33	21.046	
6,200.00	6,006.44	6,400.90	6,006.44	22.00	36.56	-54.48	331.75	-1,557.46	827.84	788.23	39.61	20.899	
6,300.00	6,106.44	6,500.90	6,106.44	22.13	36.64	-54.48	331.75	-1,557.46	827.84	787.95	39.89	20.752	
6,400.00	6,206.44	6,600.90	6,206.44	22.27	36.73	-54.48	331.75	-1,557.46	827.84	787.66	40.17	20.606	
6,500.00	6,306.44	6,700.90	6,306.44	22.40	36.81	-54.48	331.75	-1,557.46	827.84	787.38	40.46	20.460	
6,600.00	6,406.44	6,800.90	6,406.44	22.53	36.89	-54.48	331.75	-1,557.46	827.84	787.09	40.75	20.315	
6,700.00	6,506.44	6,900.90	6,506.44	22.67	36.98	-54.48	331.75	-1,557.46	827.84	786.80	41.04	20.171	
6,800.00	6,606.44	7,000.90	6,606.44	22.81	37.07	-54.48	331.75	-1,557.46	827.84	786.50	41.34	20.027	
6,900.00	6,706.44	7,100.90	6,706.44	22.95	37.15	-54.48	331.75	-1,557.46	827.84	786.21	41.63	19.884	
7,000.00	6,806.44	7,200.90	6,806.44	23.09	37.24	-54.48	331.75	-1,557.46	827.84	785.91	41.93	19.742	
7,100.00	6,906.44	7,300.90	6,906.44	23.23	37.33	-54.48	331.75	-1,557.46	827.84	785.60	42.24	19.601	
7,200.00	7,006.44	7,400.90	7,006.44	23.37	37.42	-54.48	331.75	-1,557.46	827.84	785.30	42.54	19.460	
7,300.00	7,106.44	7,500.90	7,106.44	23.52	37.52	-54.48	331.75	-1,557.46	827.84	784.99	42.85	19.320	
7,400.00	7,206.44	7,600.90	7,206.44	23.66	37.61	-54.48	331.75	-1,557.46	827.84	784.68	43.16	19.181	
7,500.00	7,306.44	7,700.90	7,306.44	23.81	37.71	-54.48	331.75	-1,557.46	827.84	784.37	43.47	19.044	
7,600.00	7,406.44	7,800.90	7,406.44	23.96	37.80	-54.48	331.75	-1,557.46	827.84	784.05	43.79	18.907	
7,700.00	7,506.44	7,900.90	7,506.44	24.11	37.90	-54.48	331.75	-1,557.46	827.84	783.73	44.10	18.771	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Company: DEJOUR ENERGY COMPANY
 Project: GARFIELD COUNTY CO
 Reference Site: PAD 21A
 Site Error: 0.00ft
 Reference Well: PWD 21-6-91
 Well Error: 0.00ft
 Reference Wellbore: PWD 21-6-91
 Reference Design: Design #1

Local Co-ordinate Reference: Well PWD 21-6-91
 TVD Reference: WELL @ 7028.00ft (Original Well Elev)
 MD Reference: WELL @ 7028.00ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Output errors are at 2.00 sigma
 Database: EDM 2003.21 Single User Db
 Offset TVD Reference: Offset Datum

Offset Design PAD 21A - 6/7-13-21 - 6/7-13-21 - Design #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
7,800.00	7,606.44	8,000.90	7,606.44	24.26	38.00	-54.48	331.75	-1,557.46	827.84	783.42	44.42	18.636		
7,823.44	7,629.88	8,024.34	7,629.88	24.30	38.01	-54.48	331.75	-1,557.46	827.84	783.36	44.48	18.612		
7,900.00	7,706.44	8,044.46	7,650.00	24.41	38.02	-54.48	331.75	-1,557.46	829.76	785.13	44.83	18.594		
8,000.00	7,806.44	8,044.46	7,650.00	24.57	38.02	-54.48	331.75	-1,557.46	842.49	797.69	44.80	18.806		
8,100.00	7,906.44	8,044.46	7,650.00	24.72	38.02	-54.48	331.75	-1,557.46	866.65	821.67	44.97	19.270		
8,200.00	8,006.44	8,044.46	7,650.00	24.87	38.02	-54.48	331.75	-1,557.46	901.31	856.16	45.15	19.964		
8,300.00	8,106.44	8,044.46	7,650.00	25.03	38.02	-54.48	331.75	-1,557.46	945.33	900.01	45.32	20.857		
8,400.00	8,206.44	8,044.46	7,650.00	25.19	38.02	-54.48	331.75	-1,557.46	997.47	951.97	45.50	21.922		
8,500.00	8,306.44	8,044.46	7,650.00	25.35	38.02	-54.48	331.75	-1,557.46	1,056.52	1,010.84	45.68	23.130		
8,600.00	8,406.44	8,044.46	7,650.00	25.51	38.02	-54.48	331.75	-1,557.46	1,121.39	1,075.53	45.88	24.455		
8,700.00	8,506.44	8,044.46	7,650.00	25.67	38.02	-54.48	331.75	-1,557.46	1,191.14	1,145.10	46.04	25.874		
8,800.00	8,606.44	8,044.46	7,650.00	25.83	38.02	-54.48	331.75	-1,557.46	1,264.95	1,218.73	46.22	27.371		
8,900.00	8,706.44	8,044.46	7,650.00	25.99	38.02	-54.48	331.75	-1,557.46	1,342.15	1,295.76	46.40	28.928		
9,000.00	8,806.44	8,044.46	7,650.00	26.15	38.02	-54.48	331.75	-1,557.46	1,422.21	1,375.63	46.58	30.534		
9,054.56	8,861.00	8,044.46	7,650.00	26.20	38.02	-54.48	331.75	-1,557.46	1,466.91	1,420.29	46.63	31.461		



Company:	DEJOUR ENERGY COMPANY	Local Co-ordinate Reference:	Well PWD 21-6-91
Project:	GARFIELD COUNTY CO	TVD Reference:	WELL @ 7028.00ft (Original Well Elev)
Reference Site:	PAD 21A	MD Reference:	WELL @ 7028.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	PWD 21-6-91	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	PWD 21-6-91	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design PAD 21A - 6/7-14-21 - 6/7-14-21 - Design #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-29.99	6.93	-4.00	8.00					
100.00	100.00	100.00	100.00	0.09	0.09	-29.99	6.93	-4.00	8.00	7.82	0.18	44.475		
178.87	178.87	178.87	178.87	0.27	0.27	-29.99	6.93	-4.00	8.00	7.46	0.53	14.966		
200.00	200.00	200.00	200.00	0.31	0.31	-29.99	6.93	-4.00	8.00	7.37	0.63	12.707 CC		
300.00	299.95	299.79	299.74	0.53	0.53	65.79	6.93	-6.60	8.20	7.14	1.06	7.726 ES		
400.00	399.63	399.58	399.21	0.77	0.77	67.91	6.95	-14.42	8.83	7.30	1.53	5.769		
500.00	498.77	499.36	498.13	1.06	1.06	70.84	6.98	-27.41	9.89	7.79	2.10	4.707		
600.00	597.08	599.13	596.23	1.42	1.42	74.00	7.01	-45.55	11.40	8.58	2.82	4.048		
700.00	694.31	698.90	693.24	1.88	1.88	76.98	7.06	-68.79	13.38	9.67	3.71	3.604		
800.00	790.18	798.65	788.89	2.43	2.43	79.58	7.12	-97.05	15.82	11.01	4.81	3.288		
900.00	884.43	898.38	882.92	3.09	3.08	81.75	7.19	-130.27	18.72	12.60	6.13	3.056		
1,000.00	976.81	998.10	975.08	3.86	3.85	83.52	7.27	-168.34	22.07	14.41	7.66	2.880		
1,100.00	1,067.06	1,097.81	1,065.10	4.75	4.73	84.95	7.36	-211.16	25.86	16.43	9.43	2.742		
1,200.00	1,154.93	1,197.49	1,152.76	5.75	5.73	86.09	7.47	-258.62	30.08	18.64	11.43	2.631 SF		
1,300.00	1,241.56	1,297.22	1,239.12	6.75	6.79	92.11	7.57	-308.48	37.15	23.87	13.47	2.757		
1,400.00	1,328.17	1,396.69	1,325.27	7.75	7.87	93.20	7.68	-358.23	47.39	31.84	15.54	3.049		
1,500.00	1,414.77	1,498.16	1,411.41	8.82	8.96	93.53	7.78	-407.97	57.67	39.97	17.70	3.258		
1,600.00	1,501.38	1,595.63	1,497.55	9.91	10.05	93.76	7.89	-457.71	67.94	48.08	19.86	3.421		
1,700.00	1,587.98	1,695.10	1,583.69	10.99	11.14	93.93	7.99	-507.45	78.22	56.19	22.03	3.551		
1,800.00	1,674.59	1,794.57	1,669.83	12.08	12.24	94.06	8.10	-557.19	88.50	64.30	24.20	3.657		
1,900.00	1,761.19	1,894.04	1,755.97	13.17	13.33	94.17	8.20	-606.93	98.78	72.40	26.38	3.745		
2,000.00	1,847.89	1,993.51	1,842.11	14.24	14.43	94.24	8.31	-656.67	109.05	80.51	28.54	3.821		
2,100.00	1,936.41	2,092.93	1,928.20	15.09	15.53	92.69	8.41	-706.38	119.09	88.64	30.45	3.911		
2,200.00	2,027.26	2,192.05	2,014.04	15.85	16.63	89.11	8.52	-755.95	129.24	97.08	32.16	4.019		
2,300.00	2,120.18	2,290.59	2,099.37	16.53	17.72	84.03	8.62	-805.22	140.38	106.89	33.49	4.192		
2,400.00	2,214.91	2,388.29	2,183.98	17.11	18.81	77.96	8.73	-854.08	153.63	119.35	34.28	4.481		
2,500.00	2,311.19	2,484.87	2,267.62	17.61	19.88	71.43	8.83	-902.37	170.16	135.70	34.46	4.938		
2,600.00	2,408.78	2,580.06	2,350.06	18.01	20.93	64.94	8.93	-949.98	190.97	156.91	34.06	5.607		
2,700.00	2,507.34	2,673.62	2,431.07	18.32	21.97	58.84	9.03	-996.76	216.78	183.55	33.23	6.524		
2,800.00	2,606.66	2,765.26	2,510.44	18.55	22.99	53.39	9.12	-1,042.58	247.98	215.84	32.14	7.716		
2,900.00	2,706.45	2,854.75	2,587.93	18.70	23.99	48.65	9.22	-1,087.33	284.69	253.73	30.95	9.197		
3,000.00	2,806.44	2,941.95	2,663.45	18.78	24.95	-57.35	9.31	-1,130.94	326.67	296.98	29.89	11.003		
3,100.00	2,906.44	3,028.55	2,738.44	18.85	25.92	-61.38	9.40	-1,174.24	371.23	342.76	28.48	13.035		
3,200.00	3,006.44	3,115.15	2,813.44	18.92	26.88	-64.58	9.49	-1,217.55	417.03	389.45	27.58	15.121		
3,300.00	3,106.44	3,201.75	2,888.43	18.99	27.84	-67.16	9.59	-1,260.85	463.70	436.76	26.93	17.217		
3,400.00	3,206.44	3,290.78	2,965.54	19.07	28.82	-69.36	9.68	-1,305.35	510.98	484.51	26.47	19.305		
3,500.00	3,306.44	3,411.31	3,072.03	19.14	29.87	-71.81	9.80	-1,361.76	555.71	529.69	26.02	21.359		
3,600.00	3,406.44	3,539.77	3,189.21	19.22	30.82	-73.31	9.91	-1,414.35	595.10	569.30	25.81	23.061		
3,700.00	3,506.44	3,675.70	3,316.74	19.30	31.66	-74.59	10.01	-1,461.30	628.50	602.72	25.78	24.382		
3,800.00	3,606.44	3,818.28	3,453.75	19.39	32.35	-75.53	10.09	-1,500.66	655.28	629.41	25.88	25.325		
3,900.00	3,706.44	3,966.31	3,598.68	19.47	32.87	-76.17	10.16	-1,530.61	674.95	648.89	26.06	25.902		
4,000.00	3,806.44	4,118.26	3,749.40	19.56	33.21	-76.54	10.20	-1,549.57	687.10	660.80	26.30	26.126		
4,100.00	3,906.44	4,272.30	3,903.25	19.65	33.38	-76.67	10.21	-1,556.51	691.49	664.91	26.58	26.016		
4,200.00	4,006.44	4,375.49	4,006.44	19.75	33.44	-76.67	10.21	-1,556.53	691.51	664.67	26.83	25.789		
4,300.00	4,106.44	4,475.49	4,106.44	19.84	33.50	-76.67	10.21	-1,556.53	691.51	664.41	27.09	25.525		
4,400.00	4,206.44	4,575.49	4,206.44	19.94	33.56	-76.67	10.21	-1,556.53	691.51	664.15	27.35	25.281		
4,500.00	4,306.44	4,675.49	4,306.44	20.04	33.62	-76.67	10.21	-1,556.53	691.51	663.89	27.62	25.038		
4,600.00	4,406.44	4,775.49	4,406.44	20.14	33.68	-76.67	10.21	-1,556.53	691.51	663.62	27.89	24.795		
4,700.00	4,506.44	4,875.49	4,506.44	20.24	33.74	-76.67	10.21	-1,556.53	691.51	663.34	28.16	24.553		
4,800.00	4,606.44	4,975.49	4,606.44	20.34	33.80	-76.67	10.21	-1,556.53	691.51	663.06	28.44	24.312		
4,900.00	4,706.44	5,075.49	4,706.44	20.45	33.87	-76.67	10.21	-1,556.53	691.51	662.78	28.73	24.072		
5,000.00	4,806.44	5,175.49	4,806.44	20.56	33.93	-76.67	10.21	-1,556.53	691.51	662.49	29.01	23.833		
5,100.00	4,906.44	5,275.49	4,906.44	20.67	34.00	-76.67	10.21	-1,556.53	691.51	662.20	29.31	23.596		
5,200.00	5,006.44	5,375.49	5,006.44	20.78	34.07	-76.67	10.21	-1,556.53	691.51	661.90	29.60	23.360		
5,300.00	5,106.44	5,475.49	5,106.44	20.90	34.14	-76.67	10.21	-1,556.53	691.51	661.60	29.90	23.126		
5,400.00	5,206.44	5,575.49	5,206.44	21.01	34.21	-76.67	10.21	-1,556.53	691.51	661.30	30.20	22.894		
5,500.00	5,306.44	5,675.49	5,306.44	21.13	34.29	-76.67	10.21	-1,556.53	691.51	660.99	30.51	22.664		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Company: DEJOUR ENERGY COMPANY
Project: GARFIELD COUNTY CO
Reference Site: PAD 21A
Site Error: 0.00ft
Reference Well: PWD 21-6-91
Well Error: 0.00ft
Reference Wellbore: PWD 21-6-91
Reference Design: Design #1

Local Co-ordinate Reference: Well PWD 21-6-91
TVD Reference: WELL @ 7028.00ft (Original Well Elev)
MD Reference: WELL @ 7028.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 2003.21 Single User Db
Offset TVD Reference: Offset Datum

Offset Design PAD 21A - 6/7-14-21 - 6/7-14-21 - Design #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,600.00	5,406.44	5,775.49	5,406.44	21.25	34.36	-76.67	10.21	-1,556.53	691.51	660.68	30.82	22.436		
5,700.00	5,506.44	5,875.49	5,506.44	21.37	34.44	-76.67	10.21	-1,556.53	691.51	660.37	31.13	22.210		
5,800.00	5,606.44	5,975.49	5,606.44	21.49	34.52	-76.67	10.21	-1,556.53	691.51	660.05	31.45	21.987		
5,900.00	5,706.44	6,075.49	5,706.44	21.62	34.59	-76.67	10.21	-1,556.53	691.51	659.73	31.77	21.765		
6,000.00	5,806.44	6,175.49	5,806.44	21.75	34.67	-76.67	10.21	-1,556.53	691.51	659.41	32.09	21.546		
6,100.00	5,906.44	6,275.49	5,906.44	21.87	34.75	-76.67	10.21	-1,556.53	691.51	659.09	32.42	21.330		
6,200.00	6,006.44	6,375.49	6,006.44	22.00	34.84	-76.67	10.21	-1,556.53	691.51	658.76	32.75	21.116		
6,300.00	6,106.44	6,475.49	6,106.44	22.13	34.92	-76.67	10.21	-1,556.53	691.51	658.43	33.08	20.904		
6,400.00	6,206.44	6,575.49	6,206.44	22.27	35.01	-76.67	10.21	-1,556.53	691.51	658.09	33.41	20.695		
6,500.00	6,306.44	6,675.49	6,306.44	22.40	35.09	-76.67	10.21	-1,556.53	691.51	657.75	33.75	20.489		
6,600.00	6,406.44	6,775.49	6,406.44	22.53	35.18	-76.67	10.21	-1,556.53	691.51	657.42	34.09	20.285		
6,700.00	6,506.44	6,875.49	6,506.44	22.67	35.27	-76.67	10.21	-1,556.53	691.51	657.07	34.43	20.083		
6,800.00	6,606.44	6,975.49	6,606.44	22.81	35.36	-76.67	10.21	-1,556.53	691.51	656.73	34.78	19.884		
6,900.00	6,706.44	7,075.49	6,706.44	22.95	35.45	-76.67	10.21	-1,556.53	691.51	656.38	35.12	19.688		
7,000.00	6,806.44	7,175.49	6,806.44	23.09	35.54	-76.67	10.21	-1,556.53	691.51	656.03	35.47	19.495		
7,100.00	6,906.44	7,275.49	6,906.44	23.23	35.63	-76.67	10.21	-1,556.53	691.51	655.68	35.82	19.304		
7,200.00	7,006.44	7,375.49	7,006.44	23.37	35.73	-76.67	10.21	-1,556.53	691.51	655.33	36.18	19.115		
7,300.00	7,106.44	7,475.49	7,106.44	23.52	35.82	-76.67	10.21	-1,556.53	691.51	654.97	36.53	18.929		
7,400.00	7,206.44	7,575.49	7,206.44	23.66	35.92	-76.67	10.21	-1,556.53	691.51	654.62	36.89	18.746		
7,500.00	7,306.44	7,675.49	7,306.44	23.81	36.02	-76.67	10.21	-1,556.53	691.51	654.26	37.25	18.565		
7,600.00	7,406.44	7,775.49	7,406.44	23.96	36.12	-76.67	10.21	-1,556.53	691.51	653.90	37.61	18.387		
7,700.00	7,506.44	7,875.49	7,506.44	24.11	36.22	-76.67	10.21	-1,556.53	691.51	653.53	37.97	18.211		
7,800.00	7,606.44	7,975.49	7,606.44	24.26	36.32	-76.67	10.21	-1,556.53	691.51	653.17	38.34	18.038		
7,900.00	7,706.44	7,989.05	7,620.00	24.41	36.33	-76.67	10.21	-1,556.53	696.89	658.33	38.55	18.075		
8,000.00	7,806.44	7,989.05	7,620.00	24.57	36.33	-76.67	10.21	-1,556.53	716.20	677.45	38.75	18.482		
8,100.00	7,906.44	7,989.05	7,620.00	24.72	36.33	-76.67	10.21	-1,556.53	748.48	709.54	38.95	19.218		
8,200.00	8,006.44	7,989.05	7,620.00	24.87	36.33	-76.67	10.21	-1,556.53	792.18	753.02	39.14	20.238		
8,300.00	8,106.44	7,989.05	7,620.00	25.03	36.33	-76.67	10.21	-1,556.53	845.46	806.12	39.34	21.491		
8,400.00	8,206.44	7,989.05	7,620.00	25.19	36.33	-76.67	10.21	-1,556.53	906.69	867.15	39.54	22.932		
8,500.00	8,306.44	7,989.05	7,620.00	25.35	36.33	-76.67	10.21	-1,556.53	974.36	934.62	39.74	24.521		
8,600.00	8,406.44	7,989.05	7,620.00	25.51	36.33	-76.67	10.21	-1,556.53	1,047.22	1,007.28	39.94	26.223		
8,700.00	8,506.44	7,989.05	7,620.00	25.67	36.33	-76.67	10.21	-1,556.53	1,124.26	1,084.12	40.13	28.012		
8,800.00	8,606.44	7,989.05	7,620.00	25.83	36.33	-76.67	10.21	-1,556.53	1,204.67	1,164.34	40.33	29.867		
8,900.00	8,706.44	7,989.05	7,620.00	25.99	36.33	-76.67	10.21	-1,556.53	1,287.84	1,247.30	40.54	31.771		
9,000.00	8,806.44	7,989.05	7,620.00	26.15	36.33	-76.67	10.21	-1,556.53	1,373.25	1,332.51	40.74	33.711		
9,054.56	8,861.00	7,989.05	7,620.00	26.20	36.33	-76.67	10.21	-1,556.53	1,420.65	1,379.86	40.79	34.627		



Company: DEJOUR ENERGY COMPANY
Project: GARFIELD COUNTY CO
Reference Site: PAD 21A
Site Error: 0.00ft
Reference Well: PWD 21-6-91
Well Error: 0.00ft
Reference Wellbore: PWD 21-6-91
Reference Design: Design #1

Local Co-ordinate Reference: Well PWD 21-6-91
TVD Reference: WELL @ 7028.00ft (Original Well Elev)
MD Reference: WELL @ 7028.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 2003.21 Single User Db
Offset TVD Reference: Offset Datum

Offset Design PAD 21A - 6/7-15-21 - 6/7-15-21 - Design #2														Offset Site Error: 0.00 ft
Survey Program: 0-MWID														Offset Well Error: 0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	150.01	-6.93	4.00	8.00					
100.00	100.00	100.00	100.00	0.09	0.09	150.01	-6.93	4.00	8.00	7.82	0.18	44.478		
178.87	178.87	178.87	178.87	0.27	0.27	150.01	-6.93	4.00	8.00	7.46	0.53	14.967		
200.00	200.00	200.00	200.00	0.31	0.31	150.01	-6.93	4.00	8.00	7.37	0.63	12.708 CC		
300.00	299.95	300.11	300.07	0.53	0.53	-113.98	-7.56	1.45	8.38	7.32	1.06	7.910 ES		
400.00	399.63	400.22	399.85	0.77	0.77	-111.43	-9.46	-6.18	9.55	8.02	1.53	6.247		
500.00	498.77	500.30	499.06	1.06	1.06	-108.34	-12.63	-18.86	11.52	9.41	2.11	5.467		
600.00	597.08	600.35	597.43	1.42	1.42	-105.44	-17.04	-36.57	14.31	11.48	2.84	5.046		
700.00	694.31	700.36	694.66	1.88	1.88	-103.04	-22.69	-59.24	17.92	14.18	3.74	4.786		
800.00	790.18	800.33	790.49	2.43	2.43	-101.14	-29.56	-86.80	22.33	17.48	4.85	4.605		
900.00	884.43	900.23	884.65	3.09	3.09	-99.66	-37.63	-119.17	27.54	21.37	6.16	4.467		
1,000.00	976.81	1,000.07	976.87	3.86	3.86	-98.50	-46.88	-156.24	33.52	25.82	7.70	4.355		
1,100.00	1,067.06	1,099.84	1,066.91	4.75	4.74	-97.58	-57.27	-197.91	40.25	30.80	9.45	4.258		
1,200.00	1,154.93	1,199.53	1,154.52	5.75	5.73	-96.82	-68.77	-244.05	47.72	36.28	11.44	4.172		
1,300.00	1,241.56	1,299.38	1,240.99	6.75	6.78	-91.35	-80.85	-292.49	52.93	39.44	13.50	3.922		
1,400.00	1,328.17	1,399.36	1,327.58	7.75	7.85	-90.77	-92.94	-340.99	54.98	39.40	15.57	3.530		
1,500.00	1,414.77	1,499.34	1,414.16	8.82	8.93	-90.77	-105.04	-389.50	56.98	39.26	17.73	3.215		
1,600.00	1,501.38	1,599.32	1,500.75	9.91	10.01	-90.77	-117.13	-438.00	58.99	39.10	19.89	2.966		
1,700.00	1,587.98	1,699.30	1,587.33	10.99	11.10	-90.78	-129.22	-486.51	61.00	38.94	22.06	2.765		
1,800.00	1,674.59	1,801.22	1,675.59	12.08	12.14	-90.77	-139.37	-536.45	60.81	36.61	24.19	2.514		
1,900.00	1,761.19	1,901.21	1,762.18	13.17	13.23	-90.76	-148.40	-585.65	59.67	33.29	26.38	2.262		
2,000.00	1,847.89	2,001.21	1,848.76	14.24	14.32	-90.56	-157.42	-634.85	58.53	29.99	28.54	2.051		
2,100.00	1,936.41	2,101.11	1,935.26	15.09	15.42	-88.53	-166.44	-684.01	57.50	27.06	30.44	1.889		
2,146.24	1,978.15	2,147.20	1,975.17	15.44	15.92	-82.88	-170.61	-706.69	57.31	26.16	31.15	1.840		
2,200.00	2,027.26	2,200.66	2,021.45	15.85	16.51	-77.28	-175.43	-733.00	57.68	25.98	31.70	1.820 SF		
2,300.00	2,120.18	2,299.58	2,107.11	16.53	17.60	-63.98	-184.36	-781.68	61.49	30.16	31.33	1.963		
2,400.00	2,214.91	2,397.61	2,191.99	17.11	18.67	-49.69	-193.21	-829.91	71.53	42.51	29.03	2.484		
2,500.00	2,311.19	2,494.47	2,275.85	17.61	19.74	-37.44	-201.96	-877.57	89.11	63.14	25.97	3.431		
2,600.00	2,408.78	2,589.89	2,358.47	18.01	20.79	-28.30	-210.57	-924.52	114.02	90.66	23.36	4.881		
2,700.00	2,507.34	2,683.60	2,439.62	18.32	21.82	-21.83	-219.03	-970.64	145.53	123.99	21.54	6.757		
2,800.00	2,606.66	2,775.36	2,519.07	18.55	22.83	-17.27	-227.32	-1,015.79	182.99	162.63	20.37	8.985		
2,900.00	2,706.45	2,864.90	2,596.60	18.70	23.82	-14.02	-235.40	-1,059.85	225.91	206.30	19.61	11.523		
3,000.00	2,806.44	2,952.10	2,672.11	18.78	24.78	-113.24	-243.27	-1,102.76	273.70	254.55	19.15	14.292		
3,100.00	2,906.44	3,038.69	2,747.08	18.85	25.73	-111.28	-251.09	-1,145.36	322.93	303.83	19.10	16.908		
3,200.00	3,006.44	3,125.28	2,822.05	18.92	26.68	-109.83	-258.91	-1,187.97	372.37	353.14	19.23	19.366		
3,300.00	3,106.44	3,211.86	2,897.02	18.99	27.64	-108.72	-266.73	-1,230.57	421.95	402.48	19.47	21.676		
3,400.00	3,206.44	3,298.45	2,972.00	19.07	28.59	-107.84	-274.54	-1,273.18	471.82	451.85	19.77	23.853		
3,500.00	3,306.44	3,400.27	3,060.57	19.14	29.65	-107.03	-283.61	-1,322.58	520.76	500.61	20.15	25.841		
3,600.00	3,406.44	3,525.14	3,172.33	19.22	30.64	-106.31	-293.65	-1,377.29	565.13	544.53	20.60	27.432		
3,700.00	3,506.44	3,657.95	3,294.92	19.30	31.55	-105.78	-302.85	-1,427.47	603.42	582.33	21.08	28.620		
3,800.00	3,606.44	3,798.06	3,427.76	19.39	32.34	-105.39	-310.87	-1,471.19	635.05	613.47	21.58	29.427		
3,900.00	3,706.44	3,944.49	3,569.68	19.47	32.95	-105.11	-317.36	-1,506.52	659.53	637.47	22.06	29.895		
4,000.00	3,806.44	4,095.84	3,718.81	19.56	33.41	-104.93	-321.98	-1,531.70	676.40	653.88	22.52	30.040		
4,100.00	3,906.44	4,250.40	3,872.70	19.65	33.66	-104.84	-324.48	-1,545.33	685.35	662.43	22.92	29.900		
4,200.00	4,006.44	4,384.17	4,006.44	19.75	33.77	-104.82	-324.90	-1,547.62	686.84	663.58	23.26	29.525		
4,300.00	4,106.44	4,484.17	4,106.44	19.84	33.82	-104.82	-324.90	-1,547.62	686.84	663.29	23.56	29.156		
4,400.00	4,206.44	4,584.17	4,206.44	19.94	33.88	-104.82	-324.90	-1,547.62	686.84	662.99	23.86	28.790		
4,500.00	4,306.44	4,684.17	4,306.44	20.04	33.93	-104.82	-324.90	-1,547.62	686.84	662.88	24.16	28.428		
4,600.00	4,406.44	4,784.17	4,406.44	20.14	33.99	-104.82	-324.90	-1,547.62	686.84	662.38	24.47	28.069		
4,700.00	4,506.44	4,884.17	4,506.44	20.24	34.05	-104.82	-324.90	-1,547.62	686.84	662.06	24.78	27.716		
4,800.00	4,606.44	4,984.17	4,606.44	20.34	34.12	-104.82	-324.90	-1,547.62	686.84	661.75	25.10	27.366		
4,900.00	4,706.44	5,084.17	4,706.44	20.45	34.18	-104.82	-324.90	-1,547.62	686.84	661.43	25.42	27.022		
5,000.00	4,806.44	5,184.17	4,806.44	20.56	34.24	-104.82	-324.90	-1,547.62	686.84	661.10	25.74	26.682		
5,100.00	4,906.44	5,284.17	4,906.44	20.67	34.31	-104.82	-324.90	-1,547.62	686.84	660.78	26.07	26.346		
5,200.00	5,006.44	5,384.17	5,006.44	20.78	34.38	-104.82	-324.90	-1,547.62	686.84	660.44	26.40	26.016		
5,300.00	5,106.44	5,484.17	5,106.44	20.90	34.45	-104.82	-324.90	-1,547.62	686.84	660.11	26.73	25.691		
5,400.00	5,206.44	5,584.17	5,206.44	21.01	34.52	-104.82	-324.90	-1,547.62	686.84	659.77	27.07	25.371		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Company: DEJOUR ENERGY COMPANY
Project: GARFIELD COUNTY CO
Reference Site: PAD 21A
Site Error: 0.00ft
Reference Well: PWD 21-6-91
Well Error: 0.00ft
Reference Wellbore: PWD 21-6-91
Reference Design: Design #1

Local Co-ordinate Reference: Well PWD 21-6-91
TVD Reference: WELL @ 7028.00ft (Original Well Elev)
MD Reference: WELL @ 7028.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 2003.21 Single User Db
Offset TVD Reference: Offset Datum

Offset Design PAD 21A - 6/7-15-21 - 6/7-15-21 - Design #2													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,500.00	5,306.44	5,684.17	5,306.44	21.13	34.59	-104.82	-324.90	-1,547.62	686.84	659.43	27.41	25.056		
5,600.00	5,406.44	5,784.17	5,406.44	21.25	34.66	-104.82	-324.90	-1,547.62	686.84	659.09	27.76	24.746		
5,700.00	5,506.44	5,884.17	5,506.44	21.37	34.73	-104.82	-324.90	-1,547.62	686.84	658.74	28.10	24.441		
5,800.00	5,606.44	5,984.17	5,606.44	21.49	34.81	-104.82	-324.90	-1,547.62	686.84	658.39	28.45	24.141		
5,900.00	5,706.44	6,084.17	5,706.44	21.62	34.89	-104.82	-324.90	-1,547.62	686.84	658.04	28.80	23.846		
6,000.00	5,806.44	6,184.17	5,806.44	21.75	34.96	-104.82	-324.90	-1,547.62	686.84	657.69	29.16	23.556		
6,100.00	5,906.44	6,284.17	5,906.44	21.87	35.04	-104.82	-324.90	-1,547.62	686.84	657.33	29.51	23.271		
6,200.00	6,006.44	6,384.17	6,006.44	22.00	35.12	-104.82	-324.90	-1,547.62	686.84	656.97	29.87	22.991		
6,300.00	6,106.44	6,484.17	6,106.44	22.13	35.20	-104.82	-324.90	-1,547.62	686.84	656.61	30.24	22.717		
6,400.00	6,206.44	6,584.17	6,206.44	22.27	35.29	-104.82	-324.90	-1,547.62	686.84	656.25	30.60	22.446		
6,500.00	6,306.44	6,684.17	6,306.44	22.40	35.37	-104.82	-324.90	-1,547.62	686.84	655.88	30.97	22.181		
6,600.00	6,406.44	6,784.17	6,406.44	22.53	35.46	-104.82	-324.90	-1,547.62	686.84	655.51	31.33	21.921		
6,700.00	6,506.44	6,884.17	6,506.44	22.67	35.54	-104.82	-324.90	-1,547.62	686.84	655.14	31.70	21.665		
6,800.00	6,606.44	6,984.17	6,606.44	22.81	35.63	-104.82	-324.90	-1,547.62	686.84	654.77	32.08	21.413		
6,900.00	6,706.44	7,084.17	6,706.44	22.95	35.72	-104.82	-324.90	-1,547.62	686.84	654.40	32.45	21.167		
7,000.00	6,806.44	7,184.17	6,806.44	23.09	35.81	-104.82	-324.90	-1,547.62	686.84	654.02	32.83	20.924		
7,100.00	6,906.44	7,284.17	6,906.44	23.23	35.90	-104.82	-324.90	-1,547.62	686.84	653.64	33.20	20.686		
7,200.00	7,006.44	7,384.17	7,006.44	23.37	35.99	-104.82	-324.90	-1,547.62	686.84	653.26	33.58	20.453		
7,300.00	7,106.44	7,484.17	7,106.44	23.52	36.09	-104.82	-324.90	-1,547.62	686.84	652.88	33.96	20.223		
7,400.00	7,206.44	7,584.17	7,206.44	23.66	36.18	-104.82	-324.90	-1,547.62	686.84	652.50	34.35	19.998		
7,500.00	7,306.44	7,684.17	7,306.44	23.81	36.28	-104.82	-324.90	-1,547.62	686.84	652.12	34.73	19.777		
7,600.00	7,406.44	7,784.17	7,406.44	23.96	36.37	-104.82	-324.90	-1,547.62	686.84	651.73	35.12	19.560		
7,700.00	7,506.44	7,884.17	7,506.44	24.11	36.47	-104.82	-324.90	-1,547.62	686.84	651.34	35.50	19.347		
7,800.00	7,606.44	7,984.17	7,606.44	24.26	36.57	-104.82	-324.90	-1,547.62	686.84	650.95	35.89	19.137		
7,900.00	7,706.44	7,997.73	7,620.00	24.41	36.58	-104.82	-324.90	-1,547.62	692.26	656.14	36.12	19.164		
8,000.00	7,806.44	7,997.73	7,620.00	24.57	36.58	-104.82	-324.90	-1,547.62	711.70	675.37	36.33	19.589		
8,100.00	7,906.44	7,997.73	7,620.00	24.72	36.58	-104.82	-324.90	-1,547.62	744.18	707.64	36.54	20.366		
8,200.00	8,006.44	7,997.73	7,620.00	24.87	36.58	-104.82	-324.90	-1,547.62	788.09	751.34	36.75	21.445		
8,300.00	8,106.44	7,997.73	7,620.00	25.03	36.58	-104.82	-324.90	-1,547.62	841.65	804.69	36.96	22.772		
8,400.00	8,206.44	7,997.73	7,620.00	25.19	36.58	-104.82	-324.90	-1,547.62	903.14	865.97	37.17	24.298		
8,500.00	8,306.44	7,997.73	7,620.00	25.35	36.58	-104.82	-324.90	-1,547.62	971.06	933.68	37.38	25.978		
8,600.00	8,406.44	7,997.73	7,620.00	25.51	36.58	-104.82	-324.90	-1,547.62	1,044.15	1,006.56	37.59	27.777		
8,700.00	8,506.44	7,997.73	7,620.00	25.67	36.58	-104.82	-324.90	-1,547.62	1,121.40	1,083.60	37.80	29.665		
8,800.00	8,606.44	7,997.73	7,620.00	25.83	36.58	-104.82	-324.90	-1,547.62	1,202.01	1,163.99	38.01	31.621		
8,900.00	8,706.44	7,997.73	7,620.00	25.99	36.58	-104.82	-324.90	-1,547.62	1,285.34	1,247.12	38.22	33.626		
9,000.00	8,806.44	7,997.73	7,620.00	26.15	36.58	-104.82	-324.90	-1,547.62	1,370.91	1,332.47	38.44	35.667		
9,054.56	8,861.00	7,997.73	7,620.00	26.20	36.58	-104.82	-324.90	-1,547.62	1,418.39	1,379.90	38.49	36.647		



Company: DEJOUR ENERGY COMPANY
Project: GARFIELD COUNTY CO
Reference Site: PAD 21A
Site Error: 0.00ft
Reference Well: PWD 21-6-91
Well Error: 0.00ft
Reference Wellbore: PWD 21-6-91
Reference Design: Design #1

Local Co-ordinate Reference: Well PWD 21-6-91
TVD Reference: WELL @ 7028.00ft (Original Well Elev)
MD Reference: WELL @ 7028.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 2003.21 Single User Db
Offset TVD Reference: Offset Datum

Offset Design PAD 21A - 6/7-16-21 - 6/7-16-21 - Design #1

Survey Program: 0-MWD

Offset Site Error: 0.00 ft

Offset Well Error: 0.00 ft

Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	150.01	-13.85	8.00	15.99					
100.00	100.00	100.00	100.00	0.09	0.09	150.01	-13.85	8.00	15.99	15.82	0.18	88.953		
200.00	200.00	200.00	200.00	0.31	0.31	150.01	-13.85	8.00	15.99	15.37	0.63	25.415	CC, ES	
300.00	299.95	300.10	300.06	0.53	0.53	-114.20	-14.85	5.57	16.76	15.70	1.06	15.830		
400.00	399.63	400.17	399.80	0.77	0.77	-112.21	-17.85	-1.69	19.05	17.53	1.53	12.477		
500.00	498.77	500.16	498.93	1.06	1.05	-109.76	-22.83	-13.77	22.91	20.81	2.11	10.878		
600.00	597.08	600.04	597.12	1.42	1.42	-107.44	-29.77	-30.60	28.34	25.51	2.83	10.005		
700.00	694.31	699.77	694.09	1.88	1.87	-105.48	-38.64	-52.11	35.34	31.60	3.73	9.464		
800.00	790.18	799.33	789.54	2.43	2.42	-103.90	-49.41	-78.23	43.87	39.05	4.83	9.090		
900.00	884.43	898.68	883.20	3.09	3.08	-102.62	-62.04	-108.84	53.92	47.80	6.12	8.808		
1,000.00	976.81	997.79	974.79	3.86	3.83	-101.59	-76.46	-143.82	65.45	57.83	7.63	8.582		
1,100.00	1,067.06	1,096.64	1,064.06	4.75	4.69	-100.72	-92.64	-183.04	78.42	69.08	9.35	8.391		
1,200.00	1,154.93	1,195.22	1,150.78	5.75	5.65	-99.98	-110.50	-226.34	92.80	81.51	11.28	8.225		
1,300.00	1,241.56	1,294.40	1,236.68	6.75	6.69	-94.55	-129.40	-272.18	105.29	91.97	13.32	7.905		
1,400.00	1,328.17	1,393.96	1,322.91	7.75	7.74	-94.02	-148.38	-318.20	114.64	99.28	15.36	7.462		
1,500.00	1,414.77	1,493.52	1,409.14	8.82	8.80	-94.07	-167.35	-364.22	123.97	106.48	17.49	7.089		
1,600.00	1,501.38	1,593.09	1,495.36	9.91	9.86	-94.11	-186.33	-410.23	133.29	113.67	19.62	6.793		
1,700.00	1,587.98	1,692.65	1,581.59	10.99	10.92	-94.14	-205.31	-456.25	142.62	120.88	21.76	6.554		
1,800.00	1,674.59	1,792.22	1,667.82	12.08	11.99	-94.17	-224.29	-502.27	151.94	128.04	23.91	6.355		
1,900.00	1,761.19	1,891.78	1,754.05	13.17	13.06	-94.20	-243.27	-548.29	161.27	135.21	26.06	6.189		
2,000.00	1,847.89	1,991.34	1,840.27	14.24	14.13	-94.24	-262.24	-594.31	170.58	142.40	28.18	6.052		
2,100.00	1,936.41	2,090.85	1,926.45	15.09	15.20	-93.26	-281.21	-640.30	179.65	149.56	30.10	5.969		
2,200.00	2,027.26	2,190.04	2,012.36	15.85	16.27	-90.81	-300.12	-686.14	188.68	156.80	31.88	5.919	SF	
2,300.00	2,120.18	2,288.68	2,097.76	16.53	17.33	-87.15	-318.92	-731.72	198.31	164.88	33.43	5.933		
2,400.00	2,214.91	2,388.42	2,182.43	17.11	18.39	-82.53	-337.55	-776.91	209.45	174.82	34.64	6.047		
2,500.00	2,311.19	2,483.05	2,266.12	17.61	19.43	-77.27	-355.97	-821.57	223.16	187.76	35.40	6.304		
2,600.00	2,408.76	2,578.30	2,348.60	18.01	20.46	-71.69	-374.12	-865.59	240.47	204.60	35.67	6.741		
2,700.00	2,507.34	2,671.88	2,429.65	18.32	21.47	-66.13	-391.96	-908.85	262.29	226.81	35.48	7.393		
2,800.00	2,606.66	2,763.55	2,509.05	18.55	22.46	-60.83	-409.44	-951.22	289.28	254.38	34.90	8.288		
2,900.00	2,706.45	2,853.06	2,586.56	18.70	23.42	-55.98	-426.50	-992.58	321.82	287.75	34.07	9.445		
3,000.00	2,806.44	2,940.27	2,662.09	18.78	24.37	-53.08	-443.12	-1,032.89	359.89	326.89	33.01	10.904		
3,100.00	2,906.44	3,026.87	2,737.09	18.85	25.30	-48.63	-459.83	-1,072.92	401.11	369.28	31.83	12.601		
3,200.00	3,006.44	3,113.48	2,812.10	18.92	26.24	-44.96	-476.14	-1,112.95	444.14	413.29	30.85	14.395		
3,300.00	3,106.44	3,200.08	2,887.10	18.99	27.17	-41.90	-492.64	-1,152.98	488.49	458.43	30.07	16.247		
3,400.00	3,206.44	3,286.69	2,962.11	19.07	28.11	-39.33	-509.15	-1,193.01	533.85	504.40	29.45	18.127		
3,500.00	3,306.44	3,373.29	3,037.11	19.14	29.05	-37.14	-525.66	-1,233.03	579.97	550.98	28.98	20.010		
3,600.00	3,406.44	3,459.90	3,112.12	19.22	29.98	-35.26	-542.17	-1,273.06	626.68	598.03	28.64	21.878		
3,700.00	3,506.44	3,554.03	3,193.70	19.30	30.97	-33.51	-560.06	-1,316.46	673.78	645.40	28.38	23.741		
3,800.00	3,606.44	3,650.03	3,274.55	19.39	32.10	-31.55	-583.83	-1,374.08	717.40	689.28	28.12	25.616		
3,900.00	3,706.44	3,745.80	3,358.65	19.47	33.08	-30.04	-605.59	-1,426.84	754.88	726.85	28.03	26.930		
4,000.00	3,806.44	3,841.57	3,445.33	19.56	33.93	-28.91	-624.35	-1,472.34	785.45	757.35	28.10	27.951		
4,100.00	3,906.44	3,937.34	3,532.01	19.65	34.78	-28.12	-639.10	-1,508.12	808.43	780.15	28.27	28.595		
4,200.00	4,006.44	4,023.10	3,619.09	19.75	35.03	-27.63	-648.94	-1,531.97	823.25	794.74	28.52	28.870		
4,300.00	4,106.44	4,109.56	3,709.13	19.84	35.27	-27.42	-653.20	-1,542.31	829.55	800.75	28.80	28.799		
4,400.00	4,206.44	4,196.87	3,796.44	19.94	35.33	-27.42	-653.35	-1,542.67	829.78	800.71	29.07	28.547		
4,500.00	4,306.44	4,284.87	3,880.44	20.04	35.38	-27.42	-653.35	-1,542.67	829.78	800.46	29.32	28.302		
4,600.00	4,406.44	4,373.87	3,960.44	20.14	35.44	-27.42	-653.35	-1,542.67	829.78	800.20	29.58	28.056		
4,700.00	4,506.44	4,460.87	4,036.44	20.24	35.50	-27.42	-653.35	-1,542.67	829.78	799.94	29.84	27.811		
4,800.00	4,606.44	4,548.87	4,112.44	20.34	35.55	-27.42	-653.35	-1,542.67	829.78	799.67	30.10	27.566		
4,900.00	4,706.44	4,636.87	4,188.44	20.45	35.61	-27.42	-653.35	-1,542.67	829.78	799.40	30.37	27.321		
5,000.00	4,806.44	4,724.87	4,264.44	20.56	35.67	-27.42	-653.35	-1,542.67	829.78	799.13	30.64	27.078		
5,100.00	4,906.44	4,812.87	4,340.44	20.67	35.73	-27.42	-653.35	-1,542.67	829.78	798.85	30.92	26.834		
5,200.00	5,006.44	4,900.87	4,416.44	20.78	35.80	-27.42	-653.35	-1,542.67	829.78	798.57	31.20	26.592		
5,300.00	5,106.44	4,988.87	4,492.44	20.90	35.86	-27.42	-653.35	-1,542.67	829.78	798.29	31.49	26.351		
5,400.00	5,206.44	5,076.87	4,568.44	21.01	35.92	-27.42	-653.35	-1,542.67	829.78	798.00	31.78	26.111		
5,500.00	5,306.44	5,164.87	4,644.44	21.13	35.99	-27.42	-653.35	-1,542.67	829.78	797.70	32.07	25.873		
5,600.00	5,406.44	5,252.87	4,720.44	21.25	36.06	-27.42	-653.35	-1,542.67	829.78	797.41	32.37	25.636		

CC - Min centre to center distance or convergent point SF - min separation factor ES - min ellipse separation



Company: DEJOUR ENERGY COMPANY
Project: GARFIELD COUNTY CO
Reference Site: PAD 21A
Site Error: 0.00ft
Reference Well: PWD 21-6-91
Well Error: 0.00ft
Reference Wellbore: PWD 21-6-91
Reference Design: Design #1

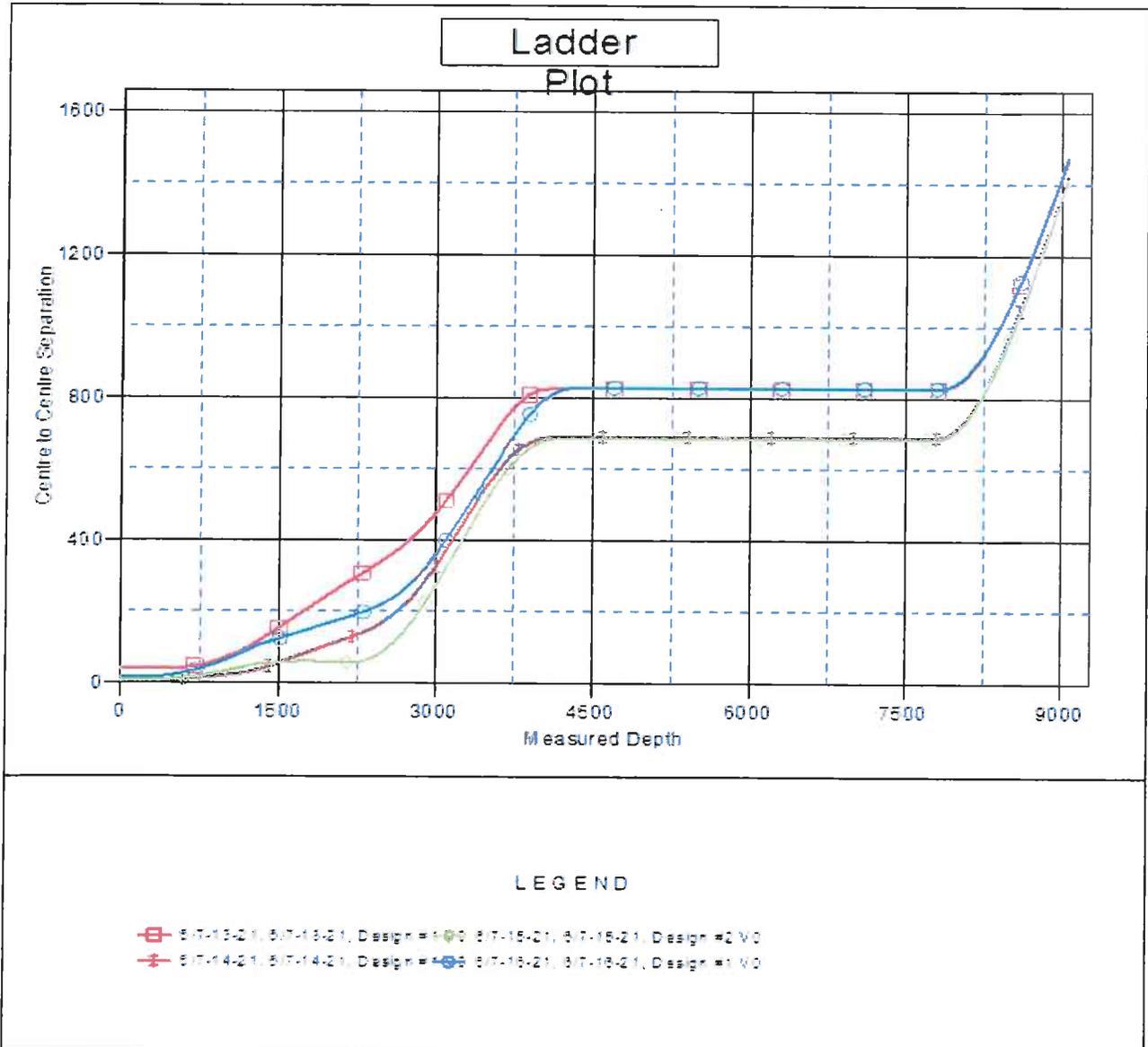
Local Co-ordinate Reference: Well PWD 21-6-91
TVD Reference: WELL @ 7028.00ft (Original Well Elev)
MD Reference: WELL @ 7028.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 2003.21 Single User Db
Offset TVD Reference: Offset Datum

Offset Design PAD 21A - 6/7-16-21 - 6/7-16-21 - Design #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance				Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,700.00	5,506.44	5,908.87	5,506.44	21.37	36.13	-127.42	-653.35	-1,542.67	829.78	797.11	32.67	25.401		
5,800.00	5,606.44	6,008.87	5,606.44	21.49	36.20	-127.42	-653.35	-1,542.67	829.78	796.81	32.97	25.167		
5,900.00	5,706.44	6,108.87	5,706.44	21.62	36.27	-127.42	-653.35	-1,542.67	829.78	796.50	33.28	24.936		
6,000.00	5,806.44	6,208.87	5,806.44	21.75	36.34	-127.42	-653.35	-1,542.67	829.78	796.19	33.59	24.706		
6,100.00	5,906.44	6,308.87	5,906.44	21.87	36.42	-127.42	-653.35	-1,542.67	829.78	795.88	33.90	24.478		
6,200.00	6,006.44	6,408.87	6,006.44	22.00	36.49	-127.42	-653.35	-1,542.67	829.78	795.56	34.21	24.252		
6,300.00	6,106.44	6,508.87	6,106.44	22.13	36.57	-127.42	-653.35	-1,542.67	829.78	795.24	34.53	24.029		
6,400.00	6,206.44	6,608.87	6,206.44	22.27	36.65	-127.42	-653.35	-1,542.67	829.78	794.92	34.85	23.807		
6,500.00	6,306.44	6,708.87	6,306.44	22.40	36.73	-127.42	-653.35	-1,542.67	829.78	794.60	35.18	23.588		
6,600.00	6,406.44	6,808.87	6,406.44	22.53	36.81	-127.42	-653.35	-1,542.67	829.78	794.27	35.50	23.371		
6,700.00	6,506.44	6,908.87	6,506.44	22.67	36.89	-127.42	-653.35	-1,542.67	829.78	793.94	35.83	23.156		
6,800.00	6,606.44	7,008.87	6,606.44	22.81	36.97	-127.42	-653.35	-1,542.67	829.78	793.61	36.17	22.944		
6,900.00	6,706.44	7,108.87	6,706.44	22.95	37.05	-127.42	-653.35	-1,542.67	829.78	793.28	36.50	22.734		
7,000.00	6,806.44	7,208.87	6,806.44	23.09	37.14	-127.42	-653.35	-1,542.67	829.78	792.94	36.84	22.526		
7,100.00	6,906.44	7,308.87	6,906.44	23.23	37.22	-127.42	-653.35	-1,542.67	829.78	792.60	37.18	22.320		
7,200.00	7,006.44	7,408.87	7,006.44	23.37	37.31	-127.42	-653.35	-1,542.67	829.78	792.26	37.52	22.117		
7,300.00	7,106.44	7,508.87	7,106.44	23.52	37.40	-127.42	-653.35	-1,542.67	829.78	791.92	37.86	21.917		
7,400.00	7,206.44	7,608.87	7,206.44	23.66	37.49	-127.42	-653.35	-1,542.67	829.78	791.57	38.21	21.718		
7,500.00	7,306.44	7,708.87	7,306.44	23.81	37.58	-127.42	-653.35	-1,542.67	829.78	791.22	38.55	21.522		
7,600.00	7,406.44	7,808.87	7,406.44	23.96	37.67	-127.42	-653.35	-1,542.67	829.78	790.87	38.90	21.329		
7,700.00	7,506.44	7,908.87	7,506.44	24.11	37.77	-127.42	-653.35	-1,542.67	829.78	790.52	39.26	21.138		
7,800.00	7,606.44	8,008.87	7,606.44	24.26	37.86	-127.42	-653.35	-1,542.67	829.78	790.17	39.61	20.949		
7,800.57	7,607.01	8,009.45	7,607.01	24.26	37.86	-127.42	-653.35	-1,542.67	829.78	790.16	39.61	20.948		
7,900.00	7,706.44	8,042.43	7,640.00	24.41	37.89	-127.42	-653.35	-1,542.67	832.43	792.58	39.86	20.886		
8,000.00	7,806.44	8,042.43	7,640.00	24.57	37.89	-127.42	-653.35	-1,542.67	846.30	806.26	40.05	21.132		
8,100.00	7,906.44	8,042.43	7,640.00	24.72	37.89	-127.42	-653.35	-1,542.67	871.50	831.26	40.24	21.658		
8,200.00	8,006.44	8,042.43	7,640.00	24.87	37.89	-127.42	-653.35	-1,542.67	907.09	866.65	40.43	22.434		
8,300.00	8,106.44	8,042.43	7,640.00	25.03	37.89	-127.42	-653.35	-1,542.67	951.89	911.26	40.63	23.430		
8,400.00	8,206.44	8,042.43	7,640.00	25.19	37.89	-127.42	-653.35	-1,542.67	1,004.68	963.86	40.82	24.612		
8,500.00	8,306.44	8,042.43	7,640.00	25.35	37.89	-127.42	-653.35	-1,542.67	1,064.27	1,023.25	41.02	25.947		
8,600.00	8,406.44	8,042.43	7,640.00	25.51	37.89	-127.42	-653.35	-1,542.67	1,129.58	1,088.37	41.21	27.409		
8,700.00	8,506.44	8,042.43	7,640.00	25.67	37.89	-127.42	-653.35	-1,542.67	1,199.69	1,158.28	41.41	28.972		
8,800.00	8,606.44	8,042.43	7,640.00	25.83	37.89	-127.42	-653.35	-1,542.67	1,273.79	1,232.18	41.61	30.616		
8,900.00	8,706.44	8,042.43	7,640.00	25.99	37.89	-127.42	-653.35	-1,542.67	1,351.23	1,309.43	41.80	32.324		
9,000.00	8,806.44	8,042.43	7,640.00	26.15	37.89	-127.42	-653.35	-1,542.67	1,431.47	1,389.47	42.00	34.082		
9,054.56	8,861.00	8,042.43	7,640.00	26.20	37.89	-127.42	-653.35	-1,542.67	1,476.27	1,434.21	42.05	35.104		

Company: DEJOUR ENERGY COMPANY
 Project: GARFIELD COUNTY CO
 Reference Site: PAD 21A
 Site Error: 0.00ft
 Reference Well: PWD 21-6-91
 Well Error: 0.00ft
 Reference Wellbore: PWD 21-6-91
 Reference Design: Design #1

Local Co-ordinate Reference: Well PWD 21-6-91
 TVD Reference: WELL @ 7028.00ft (Original Well Elev)
 MD Reference: WELL @ 7028.00ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 2003.21 Single User Db
 Offset TVD Reference: Offset Datum

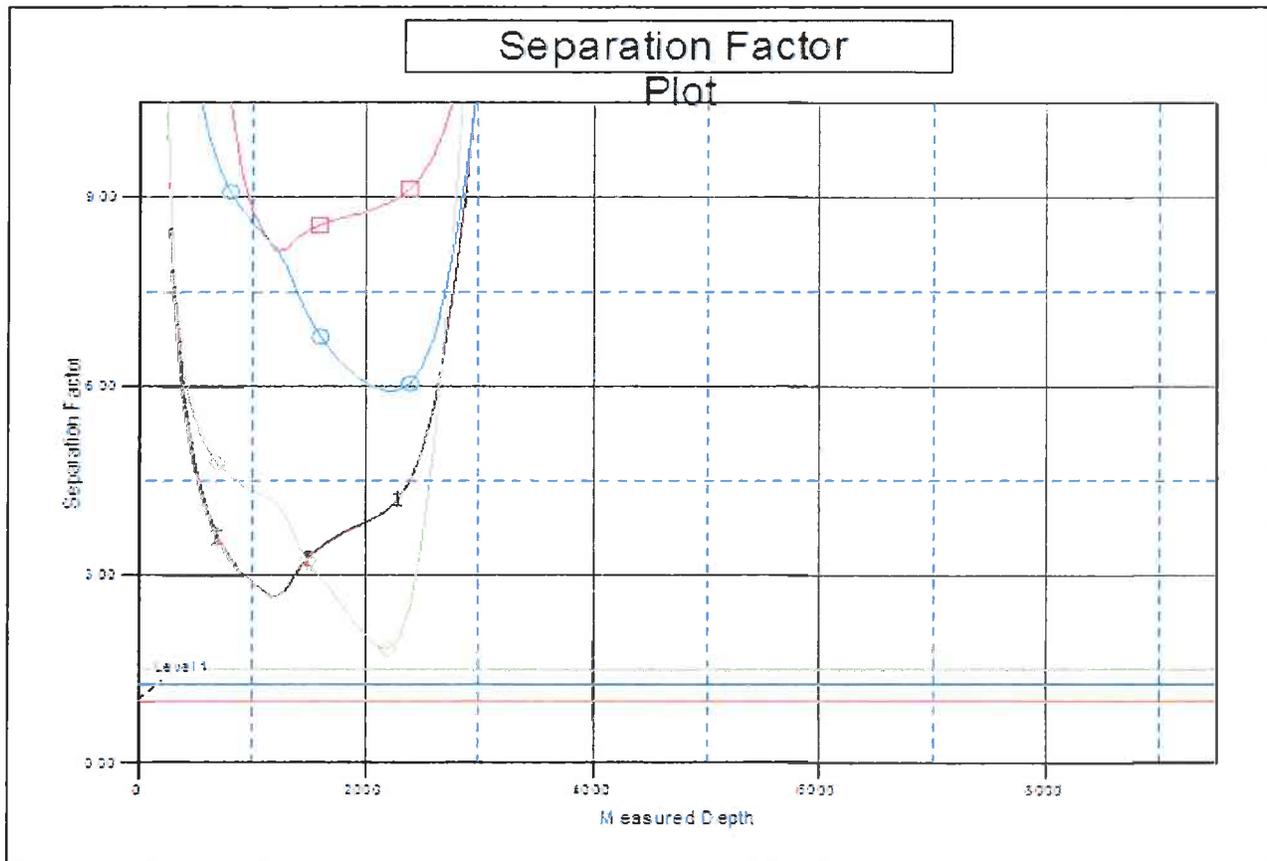
Reference Depths are relative to WELL @ 7028.00ft (Original Well Ele Coordinates are relative to: PWD 21-6-91
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Central Zone
 Central Meridian is 105° 30' 0.000 W ° Grid Convergence at Surface is: -1.30°



Company: DEJOUR ENERGY COMPANY
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Local Co-ordinate Reference: Well PWD 21-6-91
 TVD Reference: WELL @ 7028.00ft (Original Well Elev)
 MD Reference: WELL @ 7028.00ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 2003.21 Single User Db
 Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 7028.00ft (Original Well Ele Coordinates are relative to: PWD 21-6-91
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Central Zone
 Central Meridian is 105° 30' 0.000 W° Grid Convergence at Surface is: -1.30°



LEGEND

- 5/7-13-21, 5/7-13-21, Design # 1
- 5/7-15-21, 5/7-15-21, Design #2
- 5/7-14-21, 5/7-14-21, Design # 3



DEJOUR ENERGY COMPANY
GARFIELD COUNTY CO
PAD 21A
PWD 21-6-91

PWD 21-6-91

Plan: Design #1

Standard Planning Report

08 September, 2011



Weatherford®



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well PWD 21-6-91
Company:	DEJOUR ENERGY COMPANY	TVD Reference:	WELL @ 7028.00ft (Original Well Elev)
Project:	GARFIELD COUNTY CO	MD Reference:	WELL @ 7028.00ft (Original Well Elev)
Site:	PAD 21A	North Reference:	True
Well:	PWD 21-6-91	Survey Calculation Method:	Minimum Curvature
Wellbore:	PWD 21-6-91		
Design:	Design #1		

Project	GARFIELD COUNTY CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	PAD 21A				
Site Position:		Northing:	1,616,698.33ft	Latitude:	39° 30' 30.944 N
From:	Lat/Long	Easting:	2,419,965.91ft	Longitude:	107° 33' 21.387 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	-1.30 °

Well	PWD 21-6-91					
Well Position	+N/-S	-20.01ft	Northing:	1,616,679.11ft	Latitude:	39° 30' 30.746 N
	+E/-W	-34.63 ft	Easting:	2,419,930.83 ft	Longitude:	107° 33' 21.828 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	7,008.00 ft

Wellbore	PWD 21-6-91				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	9/8/2011	10.12	65.85	52,260

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	260.42

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	30.00	265.00	1,154.93	-22.30	-254.90	3.00	3.00	0.00	265.00	
1,311.04	30.00	258.30	1,251.13	-30.35	-309.75	3.01	0.00	-6.03	-92.96	
1,973.98	30.00	258.30	1,825.26	-97.54	-634.30	0.00	0.00	0.00	0.00	
2,969.22	0.00	0.00	2,775.66	-149.16	-883.64	3.01	-3.01	0.00	180.00	
9,054.56	0.00	0.00	8,861.00	-149.16	-883.64	0.00	0.00	0.00	0.00	0.00 PBHL PWD 21-6-9



Database: EDM 2003.21 Single User Db
 Company: DEJOUR ENERGY COMPANY
 Project: GARFIELD COUNTY CO
 Site: PAD 21A
 Well: PWD 21-6-91
 Wellbore: PWD 21-6-91
 Design: Design #1

Local Co-ordinate Reference: Well PWD 21-6-91
 TVD Reference: WELL @ 7028.00ft (Original Well Elev)
 MD Reference: WELL @ 7028.00ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3.00									
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	3.00	265.00	299.95	-0.23	-2.61	2.61	3.00	3.00	0.00
400.00	6.00	265.00	399.63	-0.91	-10.42	10.43	3.00	3.00	0.00
500.00	9.00	265.00	498.77	-2.05	-23.42	23.44	3.00	3.00	0.00
600.00	12.00	265.00	597.08	-3.64	-41.58	41.60	3.00	3.00	0.00
700.00	15.00	265.00	694.31	-5.67	-64.83	64.87	3.00	3.00	0.00
800.00	18.00	265.00	790.18	-8.15	-93.12	93.18	3.00	3.00	0.00
900.00	21.00	265.00	884.43	-11.06	-126.37	126.45	3.00	3.00	0.00
1,000.00	24.00	265.00	976.81	-14.39	-164.49	164.59	3.00	3.00	0.00
1,100.00	27.00	265.00	1,067.06	-18.14	-207.37	207.50	3.00	3.00	0.00
Start DLS 3.01 TFO -92.96									
1,200.00	30.00	265.00	1,154.93	-22.30	-254.90	255.06	3.00	3.00	0.00
1,300.00	29.98	258.97	1,241.56	-29.26	-304.34	304.96	3.01	-0.02	-6.03
Start 662.93 hold at 1311.04 MD									
1,311.04	30.00	258.30	1,251.13	-30.35	-309.75	310.48	3.01	0.13	-6.02
1,400.00	30.00	258.30	1,328.17	-39.37	-353.30	354.93	0.00	0.00	0.00
9 5/8"									
1,500.00	30.00	258.30	1,414.77	-49.50	-402.26	404.89	0.00	0.00	0.00
1,600.00	30.00	258.30	1,501.38	-59.64	-451.21	454.85	0.00	0.00	0.00
1,700.00	30.00	258.30	1,587.98	-69.77	-500.17	504.81	0.00	0.00	0.00
1,800.00	30.00	258.30	1,674.59	-79.91	-549.13	554.77	0.00	0.00	0.00
1,900.00	30.00	258.30	1,761.19	-90.04	-598.08	604.73	0.00	0.00	0.00
Start Drop -3.0000									
1,968.80	30.00	258.30	1,820.78	-97.02	-631.77	639.10	0.00	0.00	0.00
Start Drop -3.01									
1,973.98	30.00	258.30	1,825.26	-97.54	-634.30	641.69	0.00	0.00	0.00
2,000.00	29.21	258.30	1,847.89	-100.15	-646.89	654.54	3.01	-3.01	0.00
2,100.00	26.20	258.30	1,936.41	-109.57	-692.41	700.99	3.01	-3.01	0.00
2,200.00	23.18	258.30	2,027.26	-118.04	-733.31	742.73	3.01	-3.01	0.00
2,300.00	20.17	258.30	2,120.18	-125.53	-769.48	779.64	3.01	-3.01	0.00
2,400.00	17.16	258.30	2,214.91	-132.02	-800.81	811.61	3.01	-3.01	0.00
2,500.00	14.14	258.30	2,311.19	-137.48	-827.22	838.57	3.01	-3.01	0.00
2,600.00	11.13	258.30	2,408.76	-141.92	-848.64	860.42	3.01	-3.01	0.00
2,700.00	8.11	258.30	2,507.34	-145.31	-865.01	877.12	3.01	-3.01	0.00
2,800.00	5.10	258.30	2,606.66	-147.64	-876.27	888.62	3.01	-3.01	0.00
2,900.00	2.09	258.30	2,706.45	-148.91	-882.41	894.88	3.01	-3.01	0.00
Start 6085.34 hold at 2969.22 MD									
2,969.22	0.00	0.00	2,775.66	-149.16	-883.64	896.14	3.01	-3.01	0.00
3,000.00	0.00	0.00	2,806.44	-149.16	-883.64	896.14	0.00	0.00	0.00
3,100.00	0.00	0.00	2,906.44	-149.16	-883.64	896.14	0.00	0.00	0.00
3,200.00	0.00	0.00	3,006.44	-149.16	-883.64	896.14	0.00	0.00	0.00
3,300.00	0.00	0.00	3,106.44	-149.16	-883.64	896.14	0.00	0.00	0.00
3,400.00	0.00	0.00	3,206.44	-149.16	-883.64	896.14	0.00	0.00	0.00
3,500.00	0.00	0.00	3,306.44	-149.16	-883.64	896.14	0.00	0.00	0.00
3,600.00	0.00	0.00	3,406.44	-149.16	-883.64	896.14	0.00	0.00	0.00
3,700.00	0.00	0.00	3,506.44	-149.16	-883.64	896.14	0.00	0.00	0.00
3,800.00	0.00	0.00	3,606.44	-149.16	-883.64	896.14	0.00	0.00	0.00
3,900.00	0.00	0.00	3,706.44	-149.16	-883.64	896.14	0.00	0.00	0.00
4,000.00	0.00	0.00	3,806.44	-149.16	-883.64	896.14	0.00	0.00	0.00
4,100.00	0.00	0.00	3,906.44	-149.16	-883.64	896.14	0.00	0.00	0.00
4,200.00	0.00	0.00	4,006.44	-149.16	-883.64	896.14	0.00	0.00	0.00
4,300.00	0.00	0.00	4,106.44	-149.16	-883.64	896.14	0.00	0.00	0.00
4,400.00	0.00	0.00	4,206.44	-149.16	-883.64	896.14	0.00	0.00	0.00
4,500.00	0.00	0.00	4,306.44	-149.16	-883.64	896.14	0.00	0.00	0.00
4,600.00	0.00	0.00	4,406.44	-149.16	-883.64	896.14	0.00	0.00	0.00



Database: EDM 2003.21 Single User Db
Company: DEJOUR ENERGY COMPANY
Project: GARFIELD COUNTY CO
Site: PAD 21A
Well: PWD 21-6-91
Wellbore: PWD 21-6-91
Design: Design #1

Local Co-ordinate Reference: Well PWD 21-6-91
TVD Reference: WELL @ 7028.00ft (Original Well Elev)
MD Reference: WELL @ 7028.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,700.00	0.00	0.00	4,506.44	-149.16	-883.64	896.14	0.00	0.00	0.00
4,800.00	0.00	0.00	4,606.44	-149.16	-883.64	896.14	0.00	0.00	0.00
4,900.00	0.00	0.00	4,706.44	-149.16	-883.64	896.14	0.00	0.00	0.00
5,000.00	0.00	0.00	4,806.44	-149.16	-883.64	896.14	0.00	0.00	0.00
5,100.00	0.00	0.00	4,906.44	-149.16	-883.64	896.14	0.00	0.00	0.00
5,200.00	0.00	0.00	5,006.44	-149.16	-883.64	896.14	0.00	0.00	0.00
5,300.00	0.00	0.00	5,106.44	-149.16	-883.64	896.14	0.00	0.00	0.00
5,400.00	0.00	0.00	5,206.44	-149.16	-883.64	896.14	0.00	0.00	0.00
5,500.00	0.00	0.00	5,306.44	-149.16	-883.64	896.14	0.00	0.00	0.00
5,600.00	0.00	0.00	5,406.44	-149.16	-883.64	896.14	0.00	0.00	0.00
5,700.00	0.00	0.00	5,506.44	-149.16	-883.64	896.14	0.00	0.00	0.00
5,800.00	0.00	0.00	5,606.44	-149.16	-883.64	896.14	0.00	0.00	0.00
5,900.00	0.00	0.00	5,706.44	-149.16	-883.64	896.14	0.00	0.00	0.00
6,000.00	0.00	0.00	5,806.44	-149.16	-883.64	896.14	0.00	0.00	0.00
6,100.00	0.00	0.00	5,906.44	-149.16	-883.64	896.14	0.00	0.00	0.00
6,200.00	0.00	0.00	6,006.44	-149.16	-883.64	896.14	0.00	0.00	0.00
6,300.00	0.00	0.00	6,106.44	-149.16	-883.64	896.14	0.00	0.00	0.00
6,400.00	0.00	0.00	6,206.44	-149.16	-883.64	896.14	0.00	0.00	0.00
6,500.00	0.00	0.00	6,306.44	-149.16	-883.64	896.14	0.00	0.00	0.00
6,600.00	0.00	0.00	6,406.44	-149.16	-883.64	896.14	0.00	0.00	0.00
6,700.00	0.00	0.00	6,506.44	-149.16	-883.64	896.14	0.00	0.00	0.00
6,800.00	0.00	0.00	6,606.44	-149.16	-883.64	896.14	0.00	0.00	0.00
6,900.00	0.00	0.00	6,706.44	-149.16	-883.64	896.14	0.00	0.00	0.00
7,000.00	0.00	0.00	6,806.44	-149.16	-883.64	896.14	0.00	0.00	0.00
7,100.00	0.00	0.00	6,906.44	-149.16	-883.64	896.14	0.00	0.00	0.00
7,200.00	0.00	0.00	7,006.44	-149.16	-883.64	896.14	0.00	0.00	0.00
7,300.00	0.00	0.00	7,106.44	-149.16	-883.64	896.14	0.00	0.00	0.00
7,400.00	0.00	0.00	7,206.44	-149.16	-883.64	896.14	0.00	0.00	0.00
7,500.00	0.00	0.00	7,306.44	-149.16	-883.64	896.14	0.00	0.00	0.00
7,600.00	0.00	0.00	7,406.44	-149.16	-883.64	896.14	0.00	0.00	0.00
7,700.00	0.00	0.00	7,506.44	-149.16	-883.64	896.14	0.00	0.00	0.00
7,800.00	0.00	0.00	7,606.44	-149.16	-883.64	896.14	0.00	0.00	0.00
7,900.00	0.00	0.00	7,706.44	-149.16	-883.64	896.14	0.00	0.00	0.00
8,000.00	0.00	0.00	7,806.44	-149.16	-883.64	896.14	0.00	0.00	0.00
8,100.00	0.00	0.00	7,906.44	-149.16	-883.64	896.14	0.00	0.00	0.00
8,200.00	0.00	0.00	8,006.44	-149.16	-883.64	896.14	0.00	0.00	0.00
8,300.00	0.00	0.00	8,106.44	-149.16	-883.64	896.14	0.00	0.00	0.00
8,400.00	0.00	0.00	8,206.44	-149.16	-883.64	896.14	0.00	0.00	0.00
8,500.00	0.00	0.00	8,306.44	-149.16	-883.64	896.14	0.00	0.00	0.00
8,600.00	0.00	0.00	8,406.44	-149.16	-883.64	896.14	0.00	0.00	0.00
8,700.00	0.00	0.00	8,506.44	-149.16	-883.64	896.14	0.00	0.00	0.00
8,800.00	0.00	0.00	8,606.44	-149.16	-883.64	896.14	0.00	0.00	0.00
8,900.00	0.00	0.00	8,706.44	-149.16	-883.64	896.14	0.00	0.00	0.00
9,000.00	0.00	0.00	8,806.44	-149.16	-883.64	896.14	0.00	0.00	0.00
TD at 9054.56 - PBHL PWD 21-6-91									
9,054.56	0.00	0.00	8,861.00	-149.16	-883.64	896.14	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL PWD 21-6-91 - hit/miss target - Shape	0.00	0.00	8,861.00	-149.16	-883.64	1,616,549.98	2,419,044.04	39° 30' 29.272 N	107° 33' 33.103 W
- plan hits target center - Circle (radius 100.00)									



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 North Reference: True
 Survey Calculation Method: Minimum Curvature

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
1,500.00	1,414.77	9 5/8"	9-5/8	12-1/4

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.00	200.00	0.00	0.00	Start Build 3.00
1,200.00	1,154.93	-22.30	-254.90	Start DLS 3.01 TFO -92.96
1,311.04	1,251.13	-30.35	-309.75	Start 662.93 hold at 1311.04 MD
1,968.80	1,820.78	-97.02	-631.77	Start Drop -3.0000
1,973.98	1,825.26	-97.54	-634.30	Start Drop -3.01
2,969.22	2,775.66	-149.16	-883.64	Start 6085.34 hold at 2969.22 MD
9,054.56	8,861.00	-149.16	-883.64	TD at 9054.56