

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER


FORM APPROVED  
OMB No. 1004-0137  
Expires October 31, 2014

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. COC62063
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input 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 EE3 LLC		7. If Unit or CA Agreement, Name and No.
3a. Address 4410 Arapahoe Avenue #100 Boulder, CO 80303	3b. Phone No. (include area code) (303) 441-8881	8. Lease Name and Well No. SPICER-FRONTIER 3-32H
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 607' FSL 786' FWL SWSW At proposed prod. zone 609' FNL & 2120' FWL NENW		9. API Well No.
14. Distance in miles and direction from nearest town or post office* 18.9 Miles southwest of Walden, CO		10. Field and Pool, or Exploratory Unnamed
15. Distance from proposed* location to nearest property or lease line, ft. 607' FSL (Also to nearest drig. unit line, if any)	16. No. of acres in lease 497.010	11. Sec., T. R. M. or Blk. and Survey or Area Sec. 32, T7N R80W, 6th P.M. Sec. 32, T7N R80W, 6th P.M.
18. Distance from proposed location* 317' to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 7,362.00' TVD 12,005.66' TMD	12. County or Parish JACKSON
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 8225' GL	22. Approximate date work will start* 05/01/2014	13. State CO
17. Spacing Unit dedicated to this well Docket 531-9		20. BLM/BIA Bond No. on file COB000355
23. Estimated duration 6 Months		

24. Attachments

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

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.  | 5. Operator certification   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM.             |

25. Signature 	Name (Printed Typed) Derek Petrie	Date 03/12/2014
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Title  
Permit Supervisor

Approved by (Signature)	Name (Printed Typed)	Date
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Title	Office
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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)

T7N, R80W, 6th P.M.

EE3 LLC.

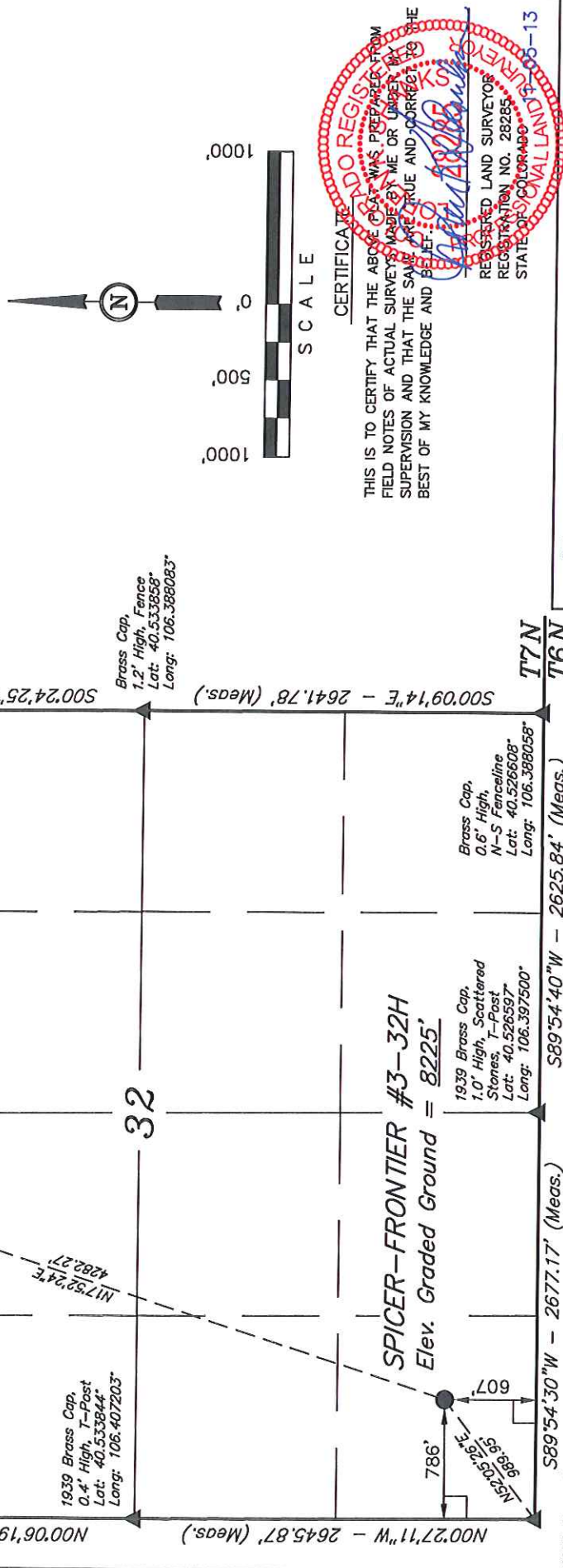
Well location, SPICER-FRONTIER #3-32H, located as shown in the SW 1/4 SW 1/4 of Section 32, T7N, R80W, 6th P.M., Jackson County, Colorado.

BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHEAST CORNER OF SECTION 29, T7N, R80W, 6th P.M., TAKEN FROM THE COALMONT QUADRANGLE, COLORADO, JACKSON COUNTY 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 8156 FEET

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE OF REGISTRATION  
THIS IS TO CERTIFY THAT THE ABOVE (PLAT) WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 28283  
STATE OF COLORADO  
JAN 13-13

UNTAH ENGINEERING & LAND SURVEYING  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

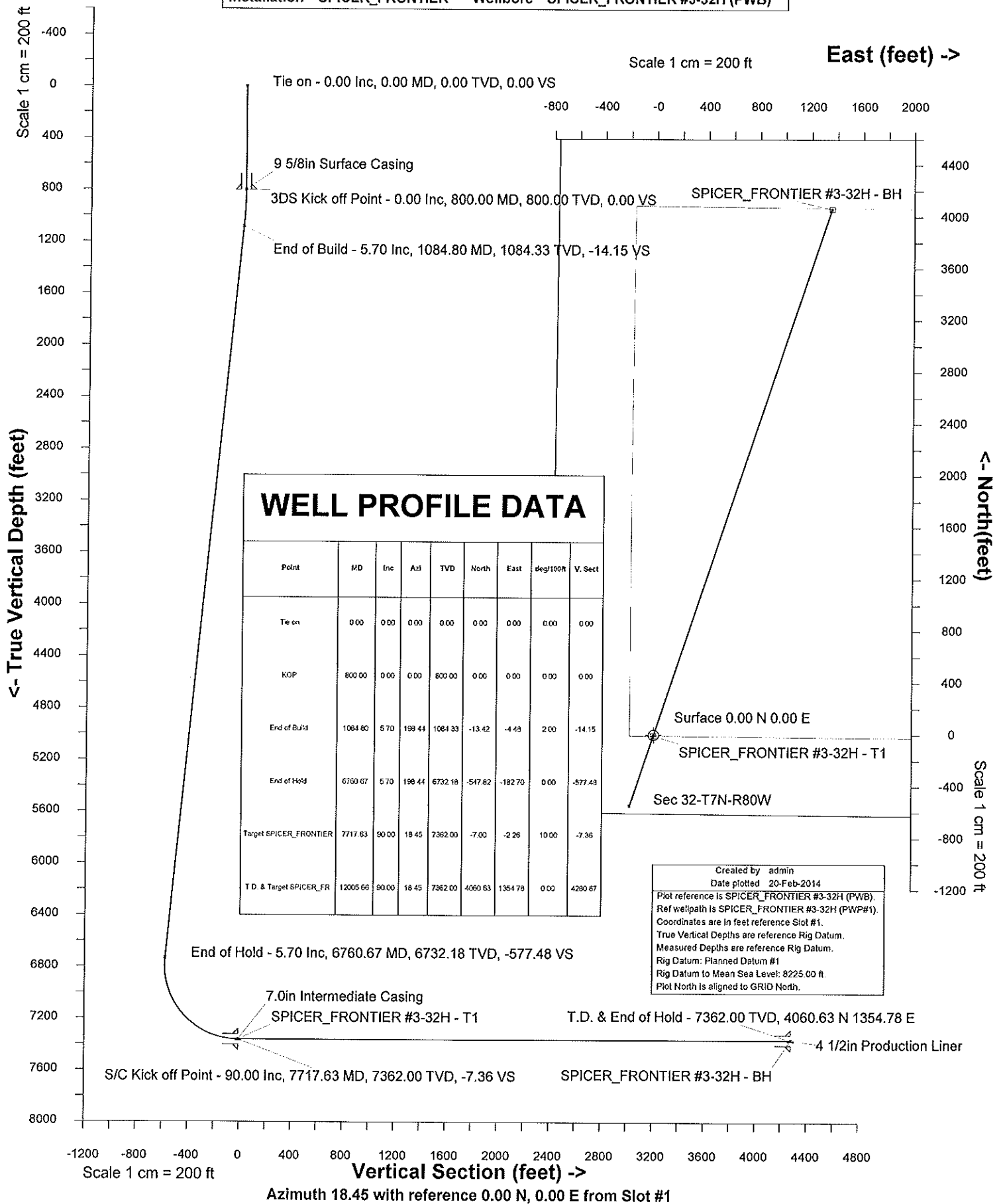
SCALE 1" = 1000'	DATE SURVEYED: 10-11-13	DATE DRAWN: 10-23-13
PARTY D.L.S. D.M.S. J.S.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE EE3 LLC.	

PDOP = 2.2

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°32'21.98" (40.539439)	LATITUDE = 40°31'41.72" (40.528256)
LONGITUDE = 106°23'58.54" (106.399594)	LONGITUDE = 106°24'15.55" (106.404319)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°32'22.05" (40.539458)	LATITUDE = 40°31'41.79" (40.528275)
LONGITUDE = 106°23'56.43" (106.399008)	LONGITUDE = 106°24'13.44" (106.403733)
STATE PLANE NAD 83	STATE PLANE NAD 83
N: 1440626.27 E: 2749973.54	N: 1436565.95 E: 2748618.43
STATE PLANE NAD 27	STATE PLANE NAD 27
N: 440624.11 E: 1750129.93	N: 436563.77 E: 1748774.87

- LEGEND:
- = 90° SYMBOL
  - = PROPOSED WELL HEAD.
  - ▲ = SECTION CORNERS LOCATED.

Location	Jackson County, CO	Slot	Slot #1
Field	Unnamed	Well	SPICER_FRONTIER #3-32H
Installation	SPICER_FRONTIER	Wellbore	SPICER_FRONTIER #3-32H (PWB)







INTEGRATED PETROLEUM TECHNOLOGIES, INC  
SYSDRILL  
Well Design Combined Report  
Wellbore: SPICER\_FRONTIER #3-32H (PWB)

### Wellhead Details

Name	Northing	Easting	Latitude	Longitude	North	East	Elevation Above Inst.
Slot #1	1436566.1695	2748618.6490	40.52825600	-106.40431900	0.00N	0.00E	-0.00

### Declination

Date	Source	Time
20-Feb-2014	IGRF Model [1900.0-2015.0]	14:24

### Site Details

Name	Northing	Easting	Coord System Name	North Alignment
SPICER_FRONTIER	1436566.1695	2748618.6490	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

### Summary Wellpath

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	1436566.17	2748618.65
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00	1436566.17	2748618.65
1084.80	5.70	198.440	1084.33	13.42S	4.48W	2.00	-14.15	1436552.75	2748614.17
6760.67	5.70	198.440	6732.18	547.82S	182.70W		-577.48	1436018.36	2748435.96
7717.63	90.00	18.450	7362.00	7.00S	2.26W	10.00	-7.36	1436559.17	2748616.39
12005.66	90.00	18.450	7362.00	4060.63N	1354.78E	==>	4280.67	1440626.66	2749973.38

### Interpolated Wellpath

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	1436566.17	2748618.65
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00	1436566.17	2748618.65
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00	1436566.17	2748618.65
300.00	0.00	0.000	300.00	0.00N	0.00E	==>	0.00	1436566.17	2748618.65
400.00	0.00	0.000	400.00	0.00N	0.00E	==>	0.00	1436566.17	2748618.65
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00	1436566.17	2748618.65
600.00	0.00	0.000	600.00	0.00N	0.00E	==>	0.00	1436566.17	2748618.65
700.00	0.00	0.000	700.00	0.00N	0.00E	==>	0.00	1436566.17	2748618.65
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00	1436566.17	2748618.65
900.00	2.00	198.440	899.98	1.66S	0.55W	2.00	-1.75	1436564.51	2748618.10
1000.00	4.00	198.440	999.84	6.62S	2.21W	2.00	-6.98	1436559.55	2748616.44
1084.80	5.70	198.440	1084.33	13.42S	4.48W	2.00	-14.15	1436552.75	2748614.17
1100.00	5.70	198.440	1099.46	14.85S	4.95W	==>	-15.65	1436551.32	2748613.70
1200.00	5.70	198.440	1198.96	24.26S	8.09W	==>	-25.58	1436541.91	2748610.56
1300.00	5.70	198.440	1298.47	33.68S	11.23W	==>	-35.50	1436532.49	2748607.42
1400.00	5.70	198.440	1397.97	43.10S	14.37W	==>	-45.43	1436523.08	2748604.28
1500.00	5.70	198.440	1497.48	52.51S	17.51W	==>	-55.35	1436513.66	2748601.14
1600.00	5.70	198.440	1596.99	61.93S	20.65W	==>	-65.28	1436504.25	2748598.00
1700.00	5.70	198.440	1696.49	71.34S	23.79W	==>	-75.20	1436494.83	2748594.86
1800.00	5.70	198.440	1796.00	80.76S	26.93W	==>	-85.13	1436485.42	2748591.72
1900.00	5.70	198.440	1895.51	90.17S	30.07W	==>	-95.05	1436476.00	2748588.58
2000.00	5.70	198.440	1995.01	99.59S	33.21W	==>	-104.98	1436466.58	2748585.44
2100.00	5.70	198.440	2094.52	109.00S	36.35W	==>	-114.91	1436457.17	2748582.30
2200.00	5.70	198.440	2194.02	118.42S	39.49W	==>	-124.83	1436447.75	2748579.16
2300.00	5.70	198.440	2293.53	127.83S	42.63W	==>	-134.76	1436438.34	2748576.02
2400.00	5.70	198.440	2393.04	137.25S	45.77W	==>	-144.68	1436428.92	2748572.88
2500.00	5.70	198.440	2492.54	146.66S	48.91W	==>	-154.61	1436419.51	2748569.74
2600.00	5.70	198.440	2592.05	156.08S	52.05W	==>	-164.53	1436410.09	2748566.60
2700.00	5.70	198.440	2691.56	165.50S	55.19W	==>	-174.46	1436400.68	2748563.46
2800.00	5.70	198.440	2791.06	174.91S	58.33W	==>	-184.38	1436391.26	2748560.32
2900.00	5.70	198.440	2890.57	184.33S	61.47W	==>	-194.31	1436381.85	2748557.18
3000.00	5.70	198.440	2990.07	193.74S	64.61W	==>	-204.23	1436372.43	2748554.04
3100.00	5.70	198.440	3089.58	203.16S	67.75W	==>	-214.16	1436363.02	2748550.90
3200.00	5.70	198.440	3189.09	212.57S	70.89W	==>	-224.08	1436353.60	2748547.76
3300.00	5.70	198.440	3288.59	221.99S	74.03W	==>	-234.01	1436344.19	2748544.62
3400.00	5.70	198.440	3388.10	231.40S	77.17W	==>	-243.93	1436334.77	2748541.48
3500.00	5.70	198.440	3487.61	240.82S	80.31W	==>	-253.86	1436325.36	2748538.34
3600.00	5.70	198.440	3587.11	250.23S	83.45W	==>	-263.78	1436315.94	2748535.20

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 8225.0ft above Mean Sea Level)  
Vertical Section is from 0.00N 0.00E on azimuth 18.450 degrees  
Bottom hole distance is 4280.67 Feet on azimuth 18.45 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by Integrated Petroleum Technologies, Inc.  
Date Printed: 20-Feb-2014





INTEGRATED PETROLEUM TECHNOLOGIES, INC  
SYSDRILL  
Well Design Combined Report  
Wellbore: SPICER\_FRONTIER #3-32H (PWB)

Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
3700.00	5.70	198.440	3686.62	259.65S	86.59W	==>	-273.71	1436306.53	2748532.06
3800.00	5.70	198.440	3786.12	269.06S	89.73W	==>	-283.63	1436297.11	2748528.92
3900.00	5.70	198.440	3885.63	278.48S	92.87W	==>	-293.56	1436287.70	2748525.78
4000.00	5.70	198.440	3985.14	287.90S	96.01W	==>	-303.48	1436278.28	2748522.64
4100.00	5.70	198.440	4084.64	297.31S	99.15W	==>	-313.41	1436268.87	2748519.50
4200.00	5.70	198.440	4184.15	306.73S	102.29W	==>	-323.33	1436259.45	2748516.36
4300.00	5.70	198.440	4283.66	316.14S	105.43W	==>	-333.26	1436250.04	2748513.22
4400.00	5.70	198.440	4383.16	325.56S	108.57W	==>	-343.18	1436240.62	2748510.08
4500.00	5.70	198.440	4482.67	334.97S	111.71W	==>	-353.11	1436231.21	2748506.94
4600.00	5.70	198.440	4582.17	344.39S	114.85W	==>	-363.03	1436221.79	2748503.80
4700.00	5.70	198.440	4681.68	353.80S	117.99W	==>	-372.96	1436212.38	2748500.66
4800.00	5.70	198.440	4781.19	363.22S	121.13W	==>	-382.88	1436202.96	2748497.52
4900.00	5.70	198.440	4880.69	372.63S	124.27W	==>	-392.81	1436193.55	2748494.38
5000.00	5.70	198.440	4980.20	382.05S	127.41W	==>	-402.73	1436184.13	2748491.24
5100.00	5.70	198.440	5079.71	391.46S	130.55W	==>	-412.66	1436174.72	2748488.10
5200.00	5.70	198.440	5179.21	400.88S	133.69W	==>	-422.59	1436165.30	2748484.96
5300.00	5.70	198.440	5278.72	410.30S	136.83W	==>	-432.51	1436155.89	2748481.82
5400.00	5.70	198.440	5378.22	419.71S	139.97W	==>	-442.44	1436146.47	2748478.68
5500.00	5.70	198.440	5477.73	429.13S	143.11W	==>	-452.36	1436137.06	2748475.54
5600.00	5.70	198.440	5577.24	438.54S	146.25W	==>	-462.29	1436127.64	2748472.40
5700.00	5.70	198.440	5676.74	447.96S	149.39W	==>	-472.21	1436118.23	2748469.26
5800.00	5.70	198.440	5776.25	457.37S	152.53W	==>	-482.14	1436108.81	2748466.12
5900.00	5.70	198.440	5875.76	466.79S	155.67W	==>	-492.06	1436099.40	2748462.98
6000.00	5.70	198.440	5975.26	476.20S	158.81W	==>	-501.99	1436089.98	2748459.84
6100.00	5.70	198.440	6074.77	485.62S	161.95W	==>	-511.91	1436080.57	2748456.70
6200.00	5.70	198.440	6174.27	495.03S	165.09W	==>	-521.84	1436071.15	2748453.56
6300.00	5.70	198.440	6273.78	504.45S	168.23W	==>	-531.76	1436061.74	2748450.42
6400.00	5.70	198.440	6373.29	513.86S	171.37W	==>	-541.69	1436052.32	2748447.28
6500.00	5.70	198.440	6472.79	523.28S	174.51W	==>	-551.61	1436042.91	2748444.14
6600.00	5.70	198.440	6572.30	532.70S	177.65W	==>	-561.54	1436033.49	2748441.00
6700.00	5.70	198.440	6671.81	542.11S	180.79W	==>	-571.46	1436024.08	2748437.86
6760.67	5.70	198.440	6732.18	547.82S	182.70W	==>	-577.48	1436018.36	2748435.96
6800.00	1.76	198.430	6771.41	550.25S	183.51W	10.00	-580.04	1436015.94	2748435.15
6900.00	8.24	18.450	6871.13	544.90S	181.72W	10.00	-574.40	1436021.29	2748436.94
7000.00	18.24	18.450	6968.35	523.21S	174.48W	10.00	-551.53	1436042.98	2748444.17
7100.00	28.24	18.450	7060.12	485.83S	162.01W	10.00	-512.13	1436080.36	2748456.64
7200.00	38.24	18.450	7143.65	433.90S	144.69W	10.00	-457.39	1436132.28	2748473.97
7300.00	48.24	18.450	7216.41	369.00S	123.03W	10.00	-388.97	1436197.18	2748495.62
7400.00	58.24	18.450	7276.19	293.11S	97.71W	10.00	-308.96	1436273.07	2748520.94
7500.00	68.24	18.450	7321.16	208.52S	69.49W	10.00	-219.79	1436357.66	2748549.16
7600.00	78.24	18.450	7349.97	117.80S	39.23W	10.00	-124.16	1436448.37	2748579.42
7700.00	88.24	18.450	7361.73	23.72S	7.84W	10.00	-24.98	1436542.45	2748610.81
7717.63	90.00	18.450	7362.00	7.00S	2.26W	10.00	-7.36	1436559.17	2748616.39
7800.00	90.00	18.450	7362.00	71.14N	23.81E	==>	75.01	1436637.30	2748642.46
7900.00	90.00	18.450	7362.00	166.00N	55.45E	==>	175.01	1436732.16	2748674.10
8000.00	90.00	18.450	7362.00	260.86N	87.10E	==>	275.01	1436827.02	2748705.75
8100.00	90.00	18.450	7362.00	355.72N	118.75E	==>	375.01	1436921.87	2748737.39
8200.00	90.00	18.450	7362.00	450.58N	150.40E	==>	475.01	1437016.73	2748769.04
8300.00	90.00	18.450	7362.00	545.44N	182.04E	==>	575.01	1437111.59	2748800.69
8400.00	90.00	18.450	7362.00	640.30N	213.69E	==>	675.01	1437206.45	2748832.33
8500.00	90.00	18.450	7362.00	735.16N	245.34E	==>	775.01	1437301.30	2748863.98
8600.00	90.00	18.450	7362.00	830.02N	276.99E	==>	875.01	1437396.16	2748895.62
8700.00	90.00	18.450	7362.00	924.88N	308.63E	==>	975.01	1437491.02	2748927.27
8800.00	90.00	18.450	7362.00	1019.74N	340.28E	==>	1075.01	1437585.87	2748958.92
8900.00	90.00	18.450	7362.00	1114.60N	371.93E	==>	1175.01	1437680.73	2748990.56
9000.00	90.00	18.450	7362.00	1209.46N	403.57E	==>	1275.01	1437775.59	2749022.21
9100.00	90.00	18.450	7362.00	1304.32N	435.22E	==>	1375.01	1437870.44	2749053.86
9200.00	90.00	18.450	7362.00	1399.18N	466.87E	==>	1475.01	1437965.30	2749085.50
9300.00	90.00	18.450	7362.00	1494.04N	498.52E	==>	1575.01	1438060.16	2749117.15
9400.00	90.00	18.450	7362.00	1588.90N	530.16E	==>	1675.01	1438155.02	2749148.79
9500.00	90.00	18.450	7362.00	1683.76N	561.81E	==>	1775.01	1438249.87	2749180.44

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Planned Datum #1 8225.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 18.450 degrees  
Bottom hole distance is 4280.67 Feet on azimuth 18.45 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by Integrated Petroleum Technologies, Inc.  
Date Printed: 20-Feb-2014



INTEGRATED PETROLEUM TECHNOLOGIES, INC  
SYSDRILL  
Well Design Combined Report  
Wellbore: SPICER\_FRONTIER #3-32H (PWB)

Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
9600.00	90.00	18.450	7362.00	1778.62N	593.46E	==>	1875.01	1438344.73	2749212.09
9700.00	90.00	18.450	7362.00	1873.48N	625.10E	==>	1975.01	1438439.59	2749243.73
9800.00	90.00	18.450	7362.00	1968.34N	656.75E	==>	2075.01	1438534.44	2749275.38
9900.00	90.00	18.450	7362.00	2063.20N	688.40E	==>	2175.01	1438629.30	2749307.02
10000.00	90.00	18.450	7362.00	2158.06N	720.05E	==>	2275.01	1438724.16	2749338.67
10100.00	90.00	18.450	7362.00	2252.92N	751.69E	==>	2375.01	1438819.01	2749370.32
10200.00	90.00	18.450	7362.00	2347.78N	783.34E	==>	2475.01	1438913.87	2749401.96
10300.00	90.00	18.450	7362.00	2442.64N	814.99E	==>	2575.01	1439008.73	2749433.61
10400.00	90.00	18.450	7362.00	2537.50N	846.63E	==>	2675.01	1439103.59	2749465.26
10500.00	90.00	18.450	7362.00	2632.36N	878.28E	==>	2775.01	1439198.44	2749496.90
10600.00	90.00	18.450	7362.00	2727.22N	909.93E	==>	2875.01	1439293.30	2749528.55
10700.00	90.00	18.450	7362.00	2822.08N	941.58E	==>	2975.01	1439388.16	2749560.19
10800.00	90.00	18.450	7362.00	2916.94N	973.22E	==>	3075.01	1439483.01	2749591.84
10900.00	90.00	18.450	7362.00	3011.80N	1004.87E	==>	3175.01	1439577.87	2749623.49
11000.00	90.00	18.450	7362.00	3106.66N	1036.52E	==>	3275.01	1439672.73	2749655.13
11100.00	90.00	18.450	7362.00	3201.52N	1068.16E	==>	3375.01	1439767.58	2749686.78
11200.00	90.00	18.450	7362.00	3296.38N	1099.81E	==>	3475.01	1439862.44	2749718.42
11300.00	90.00	18.450	7362.00	3391.24N	1131.46E	==>	3575.01	1439957.30	2749750.07
11400.00	90.00	18.450	7362.00	3486.10N	1163.11E	==>	3675.01	1440052.16	2749781.72
11500.00	90.00	18.450	7362.00	3580.96N	1194.75E	==>	3775.01	1440147.01	2749813.36
11600.00	90.00	18.450	7362.00	3675.82N	1226.40E	==>	3875.01	1440241.87	2749845.01
11700.00	90.00	18.450	7362.00	3770.68N	1258.05E	==>	3975.01	1440336.73	2749876.65
11800.00	90.00	18.450	7362.00	3865.54N	1289.70E	==>	4075.01	1440431.58	2749908.30
11900.00	90.00	18.450	7362.00	3960.40N	1321.34E	==>	4175.01	1440526.44	2749939.95
12000.00	90.00	18.450	7362.00	4055.26N	1352.99E	==>	4275.01	1440621.30	2749971.59
12005.66	90.00	18.450	7362.00	4060.63N	1354.78E	==>	4280.67	1440626.66	2749973.38

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Planned Datum #1 8225.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 18.450 degrees  
Bottom hole distance is 4280.67 Feet on azimuth 18.45 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by Integrated Petroleum Technologies, Inc.  
Date Printed: 20-Feb-2014





INTEGRATED PETROLEUM TECHNOLOGIES, INC  
SYSDRILL  
Well Design Combined Report  
Wellbore: SPICER\_FRONTIER #3-32H (PWB)

### Hole Sections

Diameter [in]	Start MD[ft]	Start TVD[ft]	Start North[ft]	Start East[ft]	End MD[ft]	End TVD[ft]	End North[ft]	End East[ft]
12 1/4	0.00	0.00	0.00N	0.00E	800.00	800.00	0.00N	0.00E
8 3/4	800.00	800.00	0.00N	0.00E	7717.00	7362.00	7.60S	2.46W
6 1/8	7717.00	7362.00	7.60S	2.46W	12005.66	7362.00	4060.63N	1354.78E

### Casings

Name	Top MD[ft]	Top TVD[ft]	Top North[ft]	Top East[ft]	Shoe MD[ft]	Shoe TVD[ft]	Shoe North[ft]	Shoe East[ft]
9 5/8in Surface Casing	0.00	0.00	0.00N	0.00E	800.00	800.00	0.00N	0.00E
7.0in Intermediate Casing	0.00	0.00	0.00N	0.00E	7717.00	7362.00	7.60S	2.46W
4 1/2in Production Liner	7517.00	7327.23	193.45S	64.46W	12005.66	7362.00	4060.63N	1354.78E

### Targets

Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting	Last Revised
SPICER_FRONTIER #3-32H - BH	4060.63N	1354.78E	7362.00	40.53943900	-106.39959400	1440626.66	2749973.38	23-Apr-2013
SPICER_FRONTIER #3-32H - T1	7.00S	2.26W	7362.00	40.52823672	-106.40432687	1436559.17	2748616.39	23-Apr-2013

### Survey Tool Program

Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
162154	Planned	12005.66	7362.00	WdW Rate Gyro	Standard

### Notes

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Planned Datum #1 8225.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 18.450 degrees  
Bottom hole distance is 4280.67 Feet on azimuth 18.45 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by Integrated Petroleum Technologies, Inc.  
Date Printed: 20-Feb-2014

**EE3 LLC****Spicer-Frontier #3-32H**

Surface Location: SWSW (607' FSL &amp; 786' FWL) SECTION 32, T7N-R80W

Bottom Hole Location: NENW (609' FNL &amp; 2120' FWL) SECTION 32, T7N-R80W

Jackson County, Colorado

**DRILLING PROGRAM****1) ESTIMATED TOPS OF GEOLOGIC MARKERS**

GR                      8,225                      RKB 8,237  
 Floor Height                      12

Formation	MD	TVD	SS
Tertiary	Surface	Surface	
Midcoal	1,189	1,188	7,049
Suddeth Coal	2,189	2,183	6,054
Tertiary Base Unconformity	3,535	3,523	4,714
Sussex Marker	5,026	5,006	3,231
Sussex	5,227	5,206	3,031
Shannon	5,567	5,545	2,692
Niobrara	6,777	6,749	1,488
Carlisle Shale	7,222	7,161	1,076
Frontier	7,717	7,362	875
Kick-Off Point	6,760	6,731	1,506
7" Casing Point	7,717	7,362	875
TD / End of Horizontal	12,005	7,362	875

**2) ANTICIPATED FORMATIONS FOR WATER, OIL, GAS AND OTHER MINERALS**

Formation	Mineral	Depth
Niobrara	Oil, Gas	6,777' MD / 6,749' TVD
Frontier	Oil, Gas	7,717' MD / 7,362' TVD

No other formations are expected to produce oil, gas, or fresh water in measurable quantities. All shows of fresh water and minerals will be adequately protected and reported.



### 3) OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

The blowout preventor assembly shall consist of one blind ram preventor, one pipe ram preventor and an annular preventor. All will be hydraulically operated. The pipe and blind rams will be hydraulically tested to 100% of working pressure (if isolated from the surface casing with a test plug) or to 70% (2,464 psig) of the internal yield of the surface casing after nipping up. The annular preventor will be tested to 50% of working pressure rating for 10 minutes or until provisions of the test are met. The pipe rams and blind rams will be function tested on each trip out of the hole, but not more than once per day. All such checks will be noted on the daily Tour Sheets.

Accessories to the BOPE include an upper kelly cock, a sub on the floor to fit all connections in the string with a full opening valve, to be stabbed into the drill string when the kelly is not in use, a drill pipe float (except for lost circulation conditions), and a choke manifold with a pressure rating equivalent to the BOP stack. An accumulator with a minimum of 1.5 times the volume of fluid necessary to close all BOP equipment will be part of the BOP system. The BOP will be kept in good mechanical working order. Checks and inspections will be recorded on daily tour sheets. Provisions of Onshore Order #2 for a 3M system will be met.

Primary BOP actuating control will be located in the accumulator house.

Sufficient mud volume and weight material will be maintained on location to overcome any flows. The drilling fluids systems will be visually monitored at all times.

### 4) CASING PROGRAM:

#### Conductor Pipe

- 20" hole size drilled.
- 16", 65 #/ft H-40 set at +/- 40 ft. Cemented to surface with Redi-mix cement.

#### 9-5/8" Surface Casing Program

Interval	Weight	Grade	Coupling	ID	Drift	Makeup Torque		
						Min	Opt	Max
0' to 800'	36#	J-55	STC	8.921"	8.765"	3,400	4,530	5,660

#### Surface casing design

	Tension	Burst	Collapse	SF tension(a)	SF burst (b)	SF collapse (c)
9-5/8" 36# J-55 STC	394,000 lbs	3,520 psi	2,020 psi	3.06 in Air 3.16 in Mud	4.03	5.40

- a) Based on casing string weight in air (28,800 lbs) with 100,000 lbs of over-pull applied. Buoyed weight of casing string in 9.0 ppg mud (.86 BF) = 24,768 lbs
- b) Based on 9.0 ppg gradient to surface, with no fluid on backside (backside evacuated) and 500 psi

- applied surface pressure
- c) Based on full casing evacuation with 9.0 ppg formation gradient on backside

All casing will be new or reconditioned and tested to meet or exceed API standards.

The surface casing will have centralizers on the bottom three joints of casing and then every other collar for 10 joints.

### **7" Intermediate Casing Program**

Interval	Weight	Grade	Coupling	ID	Drift	Makeup Torque		
						Min	Opt	Max
0' to 7,717'	26#	P-110	LTC	6.276"	6.151"	5,200	6,930	8,660

### **Intermediate casing design**

	Tension	Burst	Collapse	SF tension(a)	SF burst (b)	SF collapse (c)
7" 26# P-110 LTC	693,000 lbs	9,960 psi	6,210 psi	2.31 in Air 2.86 in Mud	2.24	1.71

- a) Based on casing string weight in air (200,642 lbs), with 100,000 lbs of over-pull applied. Buoyed weight of casing string in 9.5 ppg mud (.85 BF) = 170,546 lbs.
- b) Based on 9.5 ppg gradient to surface, with no fluid on backside (backside evacuated), and 800 psi applied surface pressure (7,362' TVD)
- c) Based on full evacuation with 9.5 ppg formation gradient on backside, pipe evacuated (7,362' TVD)

All casing will be new or reconditioned and tested to meet or exceed API standards.

The production casing will be centralized every joint from TD to KOP at 6,760', and then one centralizer every third joint thereafter to TOC.

### **4-1/2" Production Liner**

Interval	Weight	Grade	Coupling	ID	Drift	Makeup Torque		
						Min	Opt	Max
7,517'-TD	11.6#	P-110	LTC	4.000"	3.875"	2,270	3,020	3,780

### **Liner design**

	Tension	Burst	Collapse	SF tension	SF burst	SF collapse
4 1/2" 11.6# P-110 LTC	278,000 lbs	10,690 psi	7,580 psi	n/a	n/a	n/a

A 4-1/2", 11.6 lbs/ft P-110 LTC liner will be run in the lateral section after running logs. This liner will be cemented in place.

## **5) CEMENTING PROGRAM**

### **9-5/8" Surface Casing**

Cement to surface as follows

- Lead from 800' to surface: 130 sx of Premium Lite Cement with 8% bentonite, 1/4 lb/sx celloflake, and 0.5% CCL. Cement to be mixed at 12.50 lb/gal with a yield of 1.98 ft<sup>3</sup>/sx.
- If cement is not circulated to surface, a top job using Class "G" with 2% CCL will be used to fill to surface.

### **7" Intermediate Casing**

- Lead from 200' above KOP to 200' above the Midcoal formation (approximately 6,560' to 989'): 461 sx of Premium Lite Cement with 8% bentonite, 1/4 lb/sx celloflake, 0.25% CD-32, 0.5% FL-25, 8 lbs/sx CSE-2 and 0.15% R-3. Cement to be mixed at 12.5 lb/gal with a yield of 2.15 ft<sup>3</sup>/sx.
- Tail from 7" casing shoe to 200' above KOP (approximately 7,717' to 6,560'): approximately 160 sx of Class "G" Cement with 1/4 lb/sx celloflake, 0.25% CD-32, 0.5% FL-25, and 0.1% R-3. Cement to be mixed at 15.20 lb/gal with a yield of 1.15 ft<sup>3</sup>/sx.

Cement volumes to cover from TD of 7" casing shoe (approximately 7,717') to approximately 1,000' with 15% excess cement in an 8-3/4" x 7" hole size.

### **4-1/2" Production Casing**

- Lead from TD to 200' inside 7" casing shoe (approximately 12,005' to 7,517'): approximately 473 sx of Conventional cement with 10 lb/sx Pressure Seal, 2 lb/bbl CemNet, 0.25% CD-32, 0.5% FL-25, and 0.1% R-3. Cement to be mixed at 13.50 lb/gal with a yield of 1.42 ft<sup>3</sup>/sx.

All waiting on cement (WOC) times will be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.



## 6) MUD PROGRAM

The well will be drilled to TD with a combination of fresh water (surface), LSND vertical pilot hole and curve, followed by a polymer mud in the horizontal section. The applicable depths and properties of this system are as follows:

Depth	Type	Weight (ppg)	Viscosity (sec)	Water loss (cc)
0 to 800'	FW	8.4	NC	NC
800' to 7,717'	LSND	± 9.0-9.2	35 to 60	8 to 10
7,717' to TD	Polymer	± 8.4 – 8.8	30 to 50	8 to 10

Sufficient mud materials to maintain mud properties, to control lost circulation and to contain any kicks will be available at well site.

## 7) TESTING, LOGGING AND CORING PROGRAMS

Cores: None

DST's: None

Directional Surveys:

Gyro from surface.

MWD surveys surface to TD.

Minimum Logging Program:

MWD GR from surface (BSC) to TD.

## 8) ANTICIPATED ABNORMAL PRESSURES OR TEMPERATURES:

No abnormal pressures or temperatures are anticipated. No H<sub>2</sub>S gas is anticipated.

Maximum bottom hole pressure is estimated to be approximately 3,900 psi (0.53 psi/ft) (at 7,362' TVD) based on observed pressures in offset well. Maximum anticipated surface pressure equals approximately 1914 psig (estimated BHP minus the pressure of a partially evacuated hole at 0.27 psi/ft).

## 9) ANTICIPATED STARTING DATE AND DURATION:

Dirt work start up: Upon Approval

Spud: Upon Approval

Duration: Drilling 30 days, Completion 30 days

## **12-POINT SURFACE USE PLAN OF OPERATIONS**

### **EE3 LLC**

SECTION 32-T7N-R80W 6<sup>TH</sup> PM

SWSW

607' FSL & 786' FWL

JACKSON, CO

FEDERAL LEASE: COC-062063

#### 1. Existing Access Roads

##### ***Directions to Location***

Proceed in a westerly, then southerly direction from Walden, Colorado on state highway 125 approximately 1.2 miles to the junction of this road and highway 14 to the west; turn right and proceed in a westerly, then southwesterly, then southerly, then southwesterly direction approximately 16.3 miles to the junction of this road and county road 28 to the southeast; turn left and proceed in a southeasterly direction approximately 0.1 miles to the junction of this road and an existing road to the southwest; turn right and proceed in a southwesterly direction approximately 0.1 miles to the existing Spicer #03-32H pad and the proposed location. Total distance from Walden, Colorado to the proposed well location is approximately 17.7 miles.

Access to the location will occur on state highway 14 and Jackson County Road #28. The location is approximately 18.9 miles southwest of Walden, Colorado.

Existing access roads and well location -- **See Attached Maps & Diagrams**

#### 2. Access Roads To Be Constructed

Refer to the attached Topographic Map "B" for the location of the proposed access road. The new access road has been built. It is approximately 528' long and will be completed as a single lane, 16' wide 40' sub-grade, crowned road. See attached Topographic Map "B".

Maximum grade of the new access road will be 2 percent.

There will be no turnouts and wing ditches along the proposed access route.

No major cuts, fills, or bridges anticipated along the proposed access route.

No gates, cattle guards, fence cuts, or modifications to existing facilities will be required on or along the route.

A minimum of six of six inches of topsoil will be stripped from the proposed access road prior to any further construction activity. The stripped topsoil will be stored along the sides of the new access road.

The access road will be constructed and maintained as a necessary to prevent soil

erosion and accommodate all-weather traffic. The road will be crowned and ditched with wind ditches installed as necessary to provide for proper drainage along the access road route.

In the event that commercial production is established from the subject well, the access road will be surfaced to an average minimum depth (after compaction) of four inches with three inches minus pit run gravel or crushed rock, if and/or as required by the Authorized Officer. These surfacing materials(s) will be purchased from a contractor having a permitted source of materials within the general area.

The access road and associated drainage structures will be constructed and maintained in accordance with roading guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition, and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction. During the drilling and production phase of operations, the surface and shoulders will be kept in a safe useable condition and drainage ditches and culverts will be kept clear and free flowing.

3. Location of Existing Wells (within a 1-mile radius)

There are 4 know wells within the one mile radius. See attached Topographic Map C.

There is 1 abandoned well (South Coalmont #1)

There is 1 currently permitted well (Spicer #3-32H)

There are 2 producing wells (Buffalo Ditch #2-32H, Buffalo Ditch #1-32H)

4. Location of Existing and/or Proposed Production Facilities.

See Figure #3 Rehab Plat diagram for proposed production facility layout at a 1" - 50' scale and the areas of the well pad not required for production that will be reclaimed. All production facilities shall be placed so as to minimize long-term pad disturbance.

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope. As agreed to at the onsite conducted 4/28/08, EE3 will utilize Low Profile Tanks at this location.

All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted Shale Green (5Y 4/2).

Containment berms will be constructed around produced oil and water tanks. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 110 percent of the capacity of the largest tank, and be independent of the back cut.

A flowline will not be applied for with this permit.



5. LOCATION AND TYPE OF WATER SUPPLY:

Fresh water will be obtained from the Buffalo Creek, point of diversion, located in Section 28, T7N, R80W (NW/SW) Latitude 40 32.795' Longitude 105 32.277', via an independent water hauler. EE3 estimates 10,000 bbls± of Missouri Basin water will be required for drilling operations based on comparable historic use. No water well will be drilled for this well.

If the existing access road, proposed access road, and proposed pad are dry during construction, drilling, and completion activities, water will be applied to help facilitate compaction during construction and to minimize soil loss as a result of wind erosion. Anticipated water depletion, due to dust abatement, is 374 bbls±.

6. SOURCE OF CONSTRUCTION MATERIALS:

Any construction materials that may be required for surfacing of the drill pad and access road will be obtained from a contractor having a permitted source of materials within the general area. Gravel used will be pit run gravel obtained from the John Rich's Gravel Pit located in Section 32, T7N, R80W, NW/SW.

No construction materials will be removed from Federal or Indian lands without prior approval from the appropriate surface management agency.

7. METHODS OF HANDLING WASTE DISPOSAL:

Cuttings and drilling fluids will be contained in the reserve pit.

If operationally necessary, the reserve pit will be used temporarily for storage of produced fluids during testing. Fracture stimulation fluids will be flowed back into the reserve pit for evaporation. Pit will be closed and reclaimed within six (6) months of the last date of completion (weather permitting).

Portable, self-contained chemical toilets will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to disposal of human and solid waste will be complied with.

All garbage and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage. Upon completion of operations, or as needed, the accumulated trash will be transported to a state approved waste disposal site. No trash will be placed in the reserve pit.

Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location. Any open pits will be fenced during drilling operations and said fencing will be maintained until such time as the pits have been backfilled.

EE3 LLC maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production

operations for this project. Hazardous materials (substances) which may be found at the site may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/stimulation activities such as flammable or combustible substances and acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous and EHS and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

8. ANCILLARY FACILITIES:

None anticipated.

9. WELL SITE LAYOUT:

A. **General Information:**

See the attached diagrams, Figure #1 and Figure #2, showing the proposed drill pad cross sections and cut and fills in relation to topographic features as well as access onto the pad and soil stockpiles.

All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad, and spoil and topsoil storage areas).

All surface disturbance shall be confined to the existing pad footprint and drilling and completion operations shall not require any dirt work outside of the well pad and access road. The previously existing pits have been filled.

If necessary, in order to divert surface runoff, a drainage ditch will be constructed around the upslope side of the well site.

The fill section of the pad that supports the drilling rig and any other heavy equipment will be compacted.

Production tank(s) will be low profile 400 bbl (12' x 20') and the heater/treater will be 6' x 20' w/12' x 12' insulated building, the dehydrator/meter run will be 6' x 6' x 7', the methanol tank will be 500 gal. All equipment will be located on the reclaimed well pad.

A reserve pit will not be used for the referenced location. EE3 LLC will complete the installation of facilities on new well locations. EE3 shall utilize a closed loop system and shall abide by the relevant COGCC rules this site.

10. PLANS FOR RECLAMATION OF THE SURFACE:

**Interim Reclamation:**

Rat and mouse holes will be filled and compacted from bottom to top immediately after release of the drilling rig from the location.

Topsoil from the berms and/or storage piles will be spread along the road's cut and fill slopes. Drainage ditches or culverts will not be blocked with topsoil and associated organic matter. The topsoil areas will be seeded as stated below. The unused area of the pad will be recontoured and topsoil spread six inches deep. The area on the contour will be ripped one foot deep using ripper teeth set on one-foot centers.

EE3 will promptly after completion of drilling operations (depending on seasonal/weather constraints), reseed the entire drill pad and access road using a drill equipped with a depth regulator, resulting in reclamation of the drill site to approximately 0.25 acres. All seed will be drilled on the contour. The seed will be planted between one-quarter and one-half inch deep. Where drilling is not possible (i.e., too steep, rocky, etc), the seed will be broadcast and the area raked or chained to cover the seed. If the seed mixture is broadcast, the rate listed below will be doubled. Attached is the plant profile for this area. EE3 will seed with certified or registered seed per BLM recommendations below:

Drill Seeding Rate		
SEED NAME	Application Rate PLS/Acre	Seed/SQ FT
<i>Grasses</i>		
Western Wheatgrass	2.97	7.5
Pascopyrum smithii, variety. Arriba		
Thickspike Wheatgrass	2.13	7.5
Elymus lanceolatus var. Critana		
Bluebunch wheatgrass	2.51	7.5
Pseudoroegneria spicata, var. Secar (Alternate var. Goldar)		
Sheep fescue	0.62	7.5
Festuca ovina, var. Covar		
Total	8.23	30
<i>Forbs</i>		
Alfalfa var. Ladak	0.73	3.5
Big sagebrush	0.06	3.5
Artemesia tridentata ssp. wyomingensis		
Total	0.79	7

\*Big sagebrush and Alfalfa may be seeded when it would be better for success

\* Seed will be broadcast at twice the rate

*(Seed tags will be submitted to BLM after  
seeding.)*

\*Seeding will not occur prior to October 1, to avoid sprouting.

\*Pure live seed (PLS) formula: percent of purity of seed mixture times percent



germination of seed mixture equals portion of seed mixture that is PLS.

Seeding will be done between October 1 to November 15, (before ground freeze) after completion or as early as possible the following spring to take advantage of available ground moisture.

Monitoring will be conducted by a qualified Operator representative (in coordination with the BLM) following initial rehabilitation work. Monitoring areas will be re-examined at the end of the first growing season. Results will be documented in a report to the BLM. Problem areas identified during monitoring will receive follow-up rehabilitation/erosion control measures. The seeding shall be repeated until a satisfactory stand, as determined by the Authorized Officer, is obtained.

#### **Final Reclamation:**

Prior to final abandonment reclamation work, a Sundry Notice will be submitted to the Authorized Officer for approval.

Configuration of the re-shaped topography will be returned, as near as possible, to the original condition. Cut and fill slopes will be 3 to 1 or less. All topsoil will be re-stripped from interim reclamation and redistributed over the entire location. The entire location will be scarified 12" deep at 8" intervals. Water bars will be constructed at 8% grade. The entire location and 50' of access road will be re-seeded with the recommended seed mixture

Monitoring will be conducted by a qualified Operator representative (in coordination with the BLM) following initial rehabilitation work. Monitoring areas will be re-examined at the end of the first growing season. Results will be documented in a report to the BLM. Problem areas identified during monitoring will receive follow-up rehabilitation/erosion control measures. The seeding shall be repeated until a satisfactory stand, as determined by the Authorized Officer, is obtained.

#### **11. SURFACE OWNERSHIP:**

The owner of the proposed well site, access road, and pipeline route is as follows:

Well Site: Bureau of Land Management

Roads: All roads to the location after leaving Highway 14 and County Road# 28 are on lands managed by the Bureau of Land Management or are located on private surface and are covered under existing agreements or rights of way.

#### **12. OTHER INFORMATION:**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice of Lessees. The operator is fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Construction activity will not be conducted using frozen or saturated soils material or during

periods when watershed damage is likely to occur.

Weeds will be controlled on disturbed areas within the exterior limits of the access road and well pad. The control methods shall be in accordance with guidelines established by the EPA, BLM, state, and local authorities. Approval will be obtained from the Authorized Officer prior to use of pesticides.

A Class III archeological survey for the subject location has been performed and submitted by Pronghorn Archeology on December 12/11/07.

EE3 LLC will complete the installation of facilities on new well locations. EE3 shall utilize a closed loop system and shall abide by the relevant COGCC rules this site.

The existing Storm Water Management Plan and Permit are valid and have been transferred from EOG to EE# with the WQCD Division of CDPHE.

Reclamation and Monitoring Plan: The reclamation plan is described in Section 10 above. EE3 or the operator of record will monitor the success of reclamation by inspecting the site three times a year to confirm desired vegetative growth. If the inspection shows unsuccessful re-vegetation and/or invasive weeds, then appropriate remedial work will be implemented.

EE3 or the operator of record, in consultation with the BLM, will monitor raptor nesting and sage grouse lek use on or near the project area and will monitor project activity in big game crucial ranges during critical periods to ensure that no unauthorized use occurs. Drilling and Completion operations shall be no longer than 4 months, and will be done between July and October.

## **Lessee or Operator's Representative and Certification:**

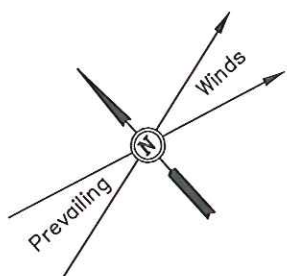
I hereby certify that I, or someone under my direct supervision, have inspected the proposed drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of State and Federal Laws applicable to this operation; that the statements 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 in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible to the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Executed this 12<sup>th</sup> day of March, 2014

Derek Petrie



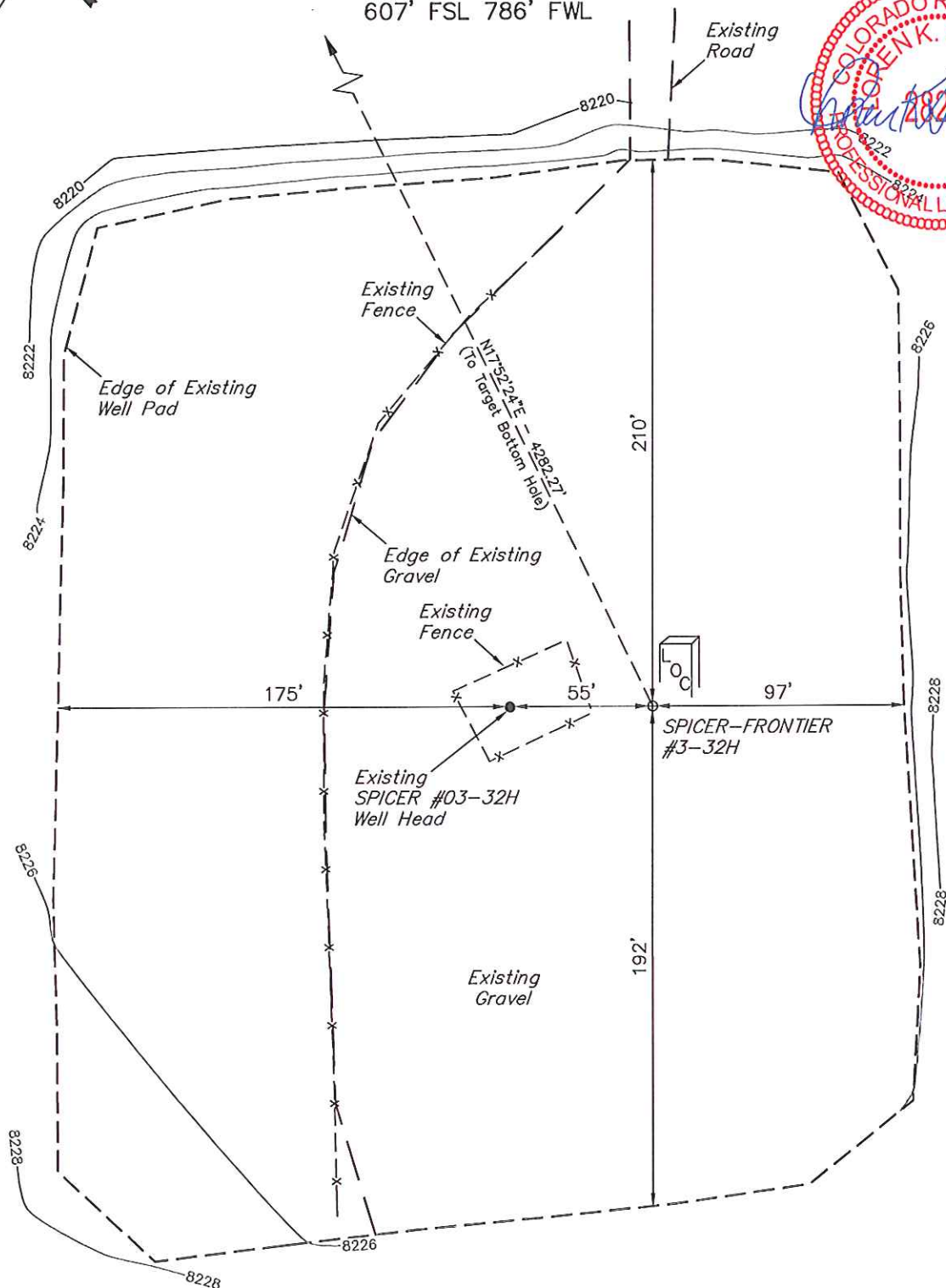
Integrated Petroleum Technologies, Inc.  
1707 Cole Blvd., Suite 200  
Golden, CO 80401  
(720)-560-2700  
[derek.petrie@iptenergyservices.com](mailto:derek.petrie@iptenergyservices.com)



EE3 LLC.  
CONSTRUCTION LAYOUT FOR  
SPICER-FRONTIER #3-32H  
ON EXISTING SPICER #03-32H PAD  
SECTION 32, T7N, R80W, 6th P.M.  
607' FSL 786' FWL

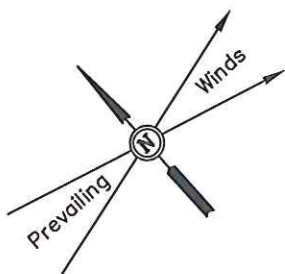
FIGURE #1

SCALE: 1" = 60'  
DATE: 10-23-13  
DRAWN BY: J.S.



EXISTING GRADED ELEV. AT #3-32H LOC. STAKE = 8225.2'

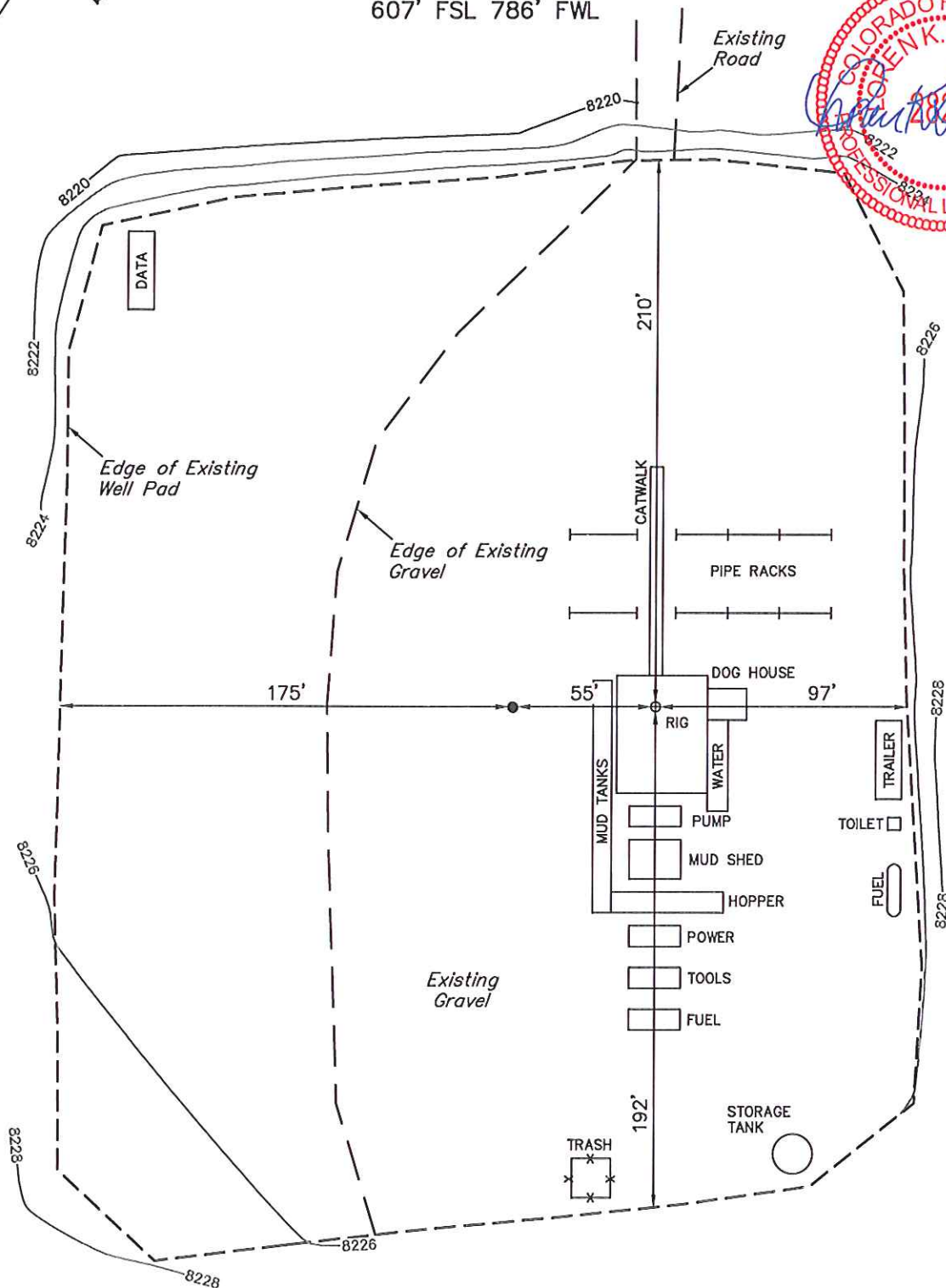
UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



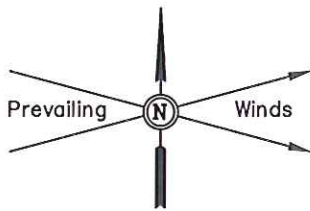
EE3 LLC.  
TYPICAL RIG LAYOUT FOR  
SPICER-FRONTIER #3-32H  
ON EXISTING SPICER #03-32H PAD  
SECTION 32, T7N, R80W, 6th P.M.  
607' FSL 786' FWL

FIGURE #2

SCALE: 1" = 60'  
DATE: 10-23-13  
DRAWN BY: J.S.







**EE3 LLC.**  
 LOCATION DRAWING FOR  
 SPICER-FRONTIER #3-32H  
 ON EXISTING SPICER #03-32H PAD  
 SECTION 32, T7N, R80W, 6th P.M.  
 607' FSL 786' FWL

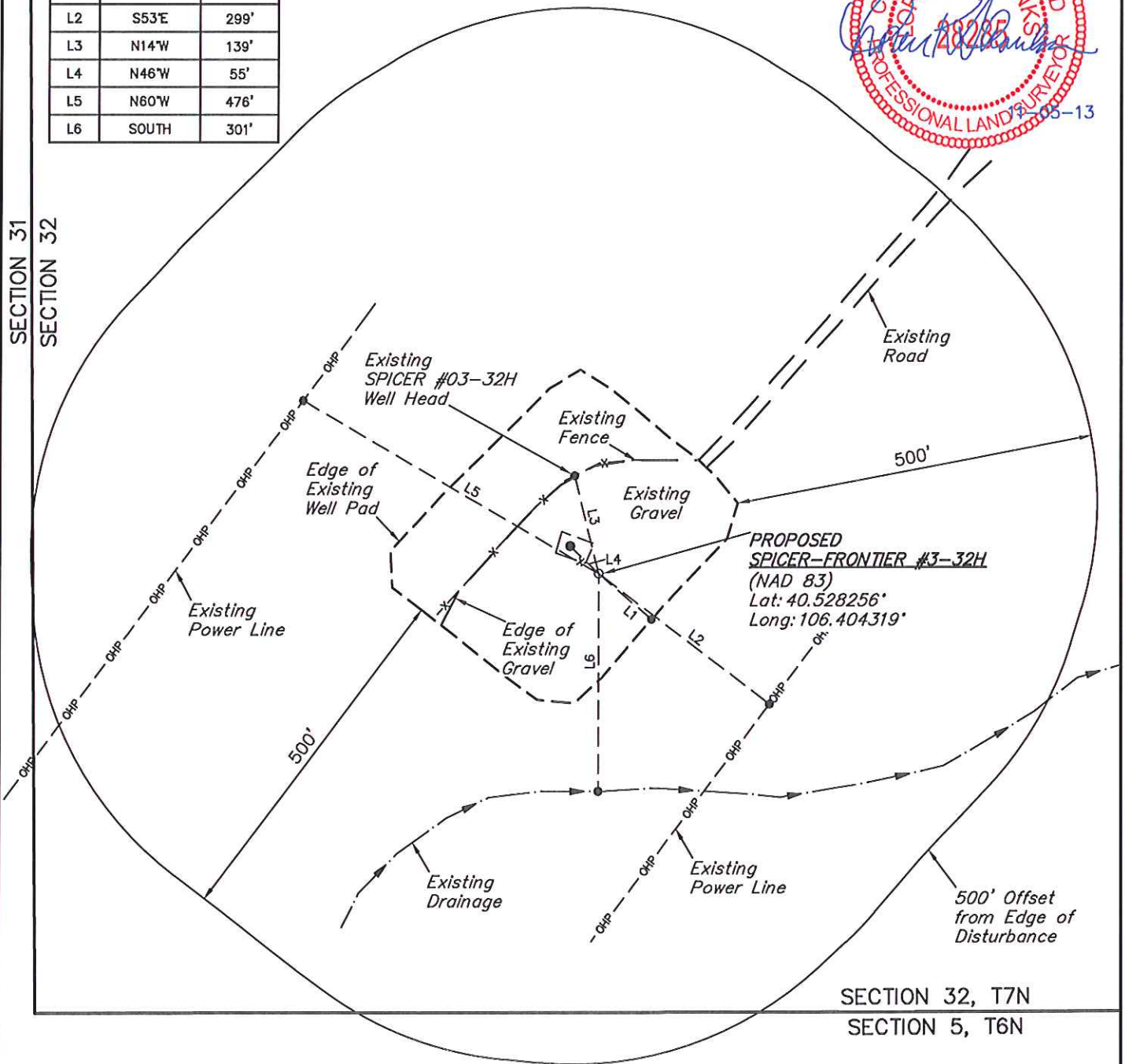
**FIGURE #3**

SCALE: 1" = 200'  
 DATE SURVEYED: 10-11-13  
 SURVEYED BY: DAVE SWANSON  
 DATE DRAWN: 10-23-13  
 DRAWN BY: J.S.

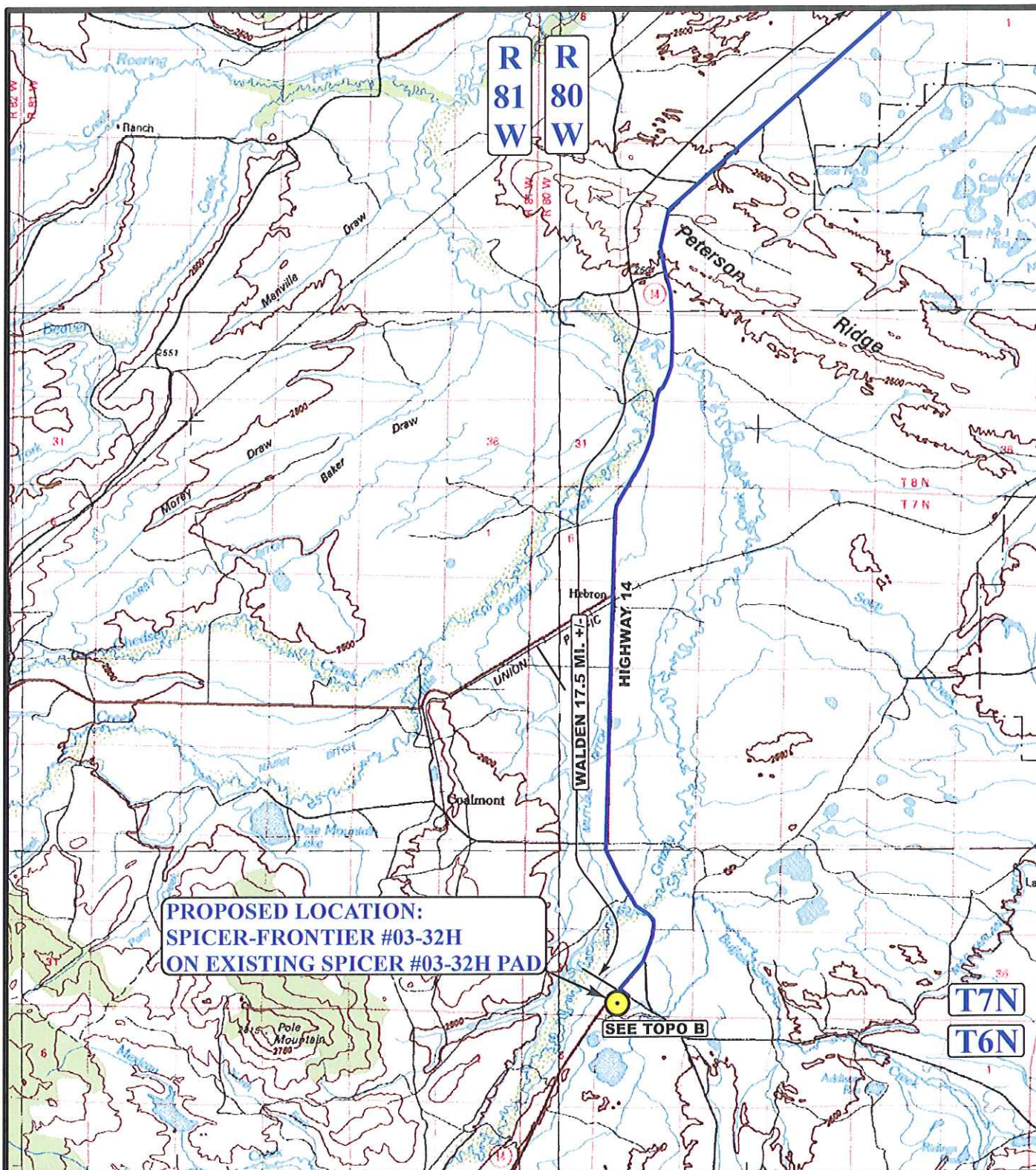
LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S49°E	97'
L2	S53°E	299'
L3	N14°W	139'
L4	N46°W	55'
L5	N60°W	476'
L6	SOUTH	301'



SECTION 31  
SECTION 32







# LEGEND:

PROPOSED LOCATION



EE3 LLC.

SPICER-FRONTIER #03-32H ON EXISTING  
SPICER #03-32H PAD  
SECTION 32, T7N, R80W, 6th P.M.  
607' FSL 786' FWL



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

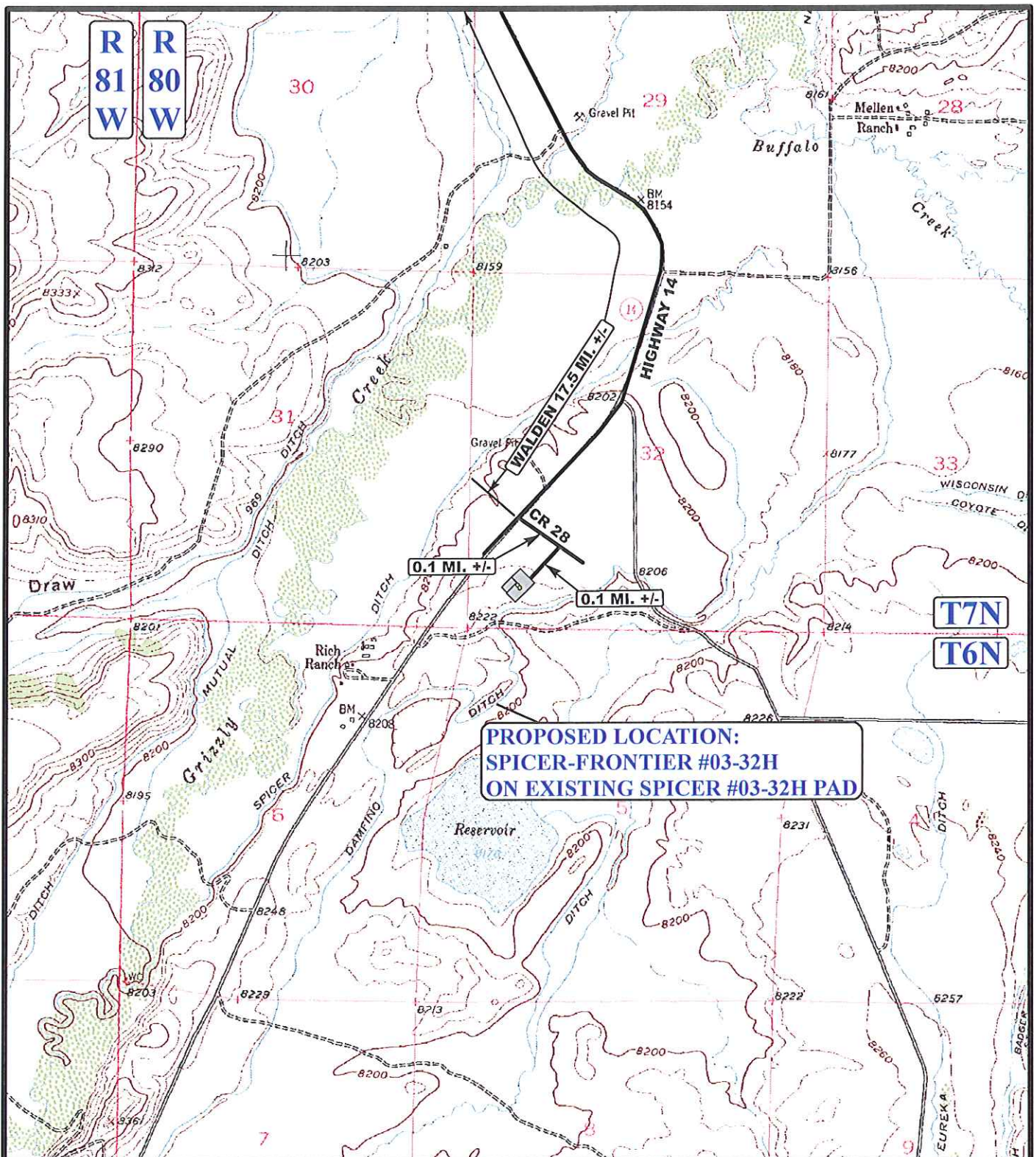
**ACCESS ROAD  
MAP**

10 18 13  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: J.C. REVISED: 00-00-00







# LEGEND:

EXISTING ROADS

N

EE3 LLC.

SPICER-FRONTIER #03-32H ON EXISTING  
 SPICER #03-32H PAD  
 SECTION 32, T7N, R80W, 6th P.M.  
 607' FSL 786' FWL



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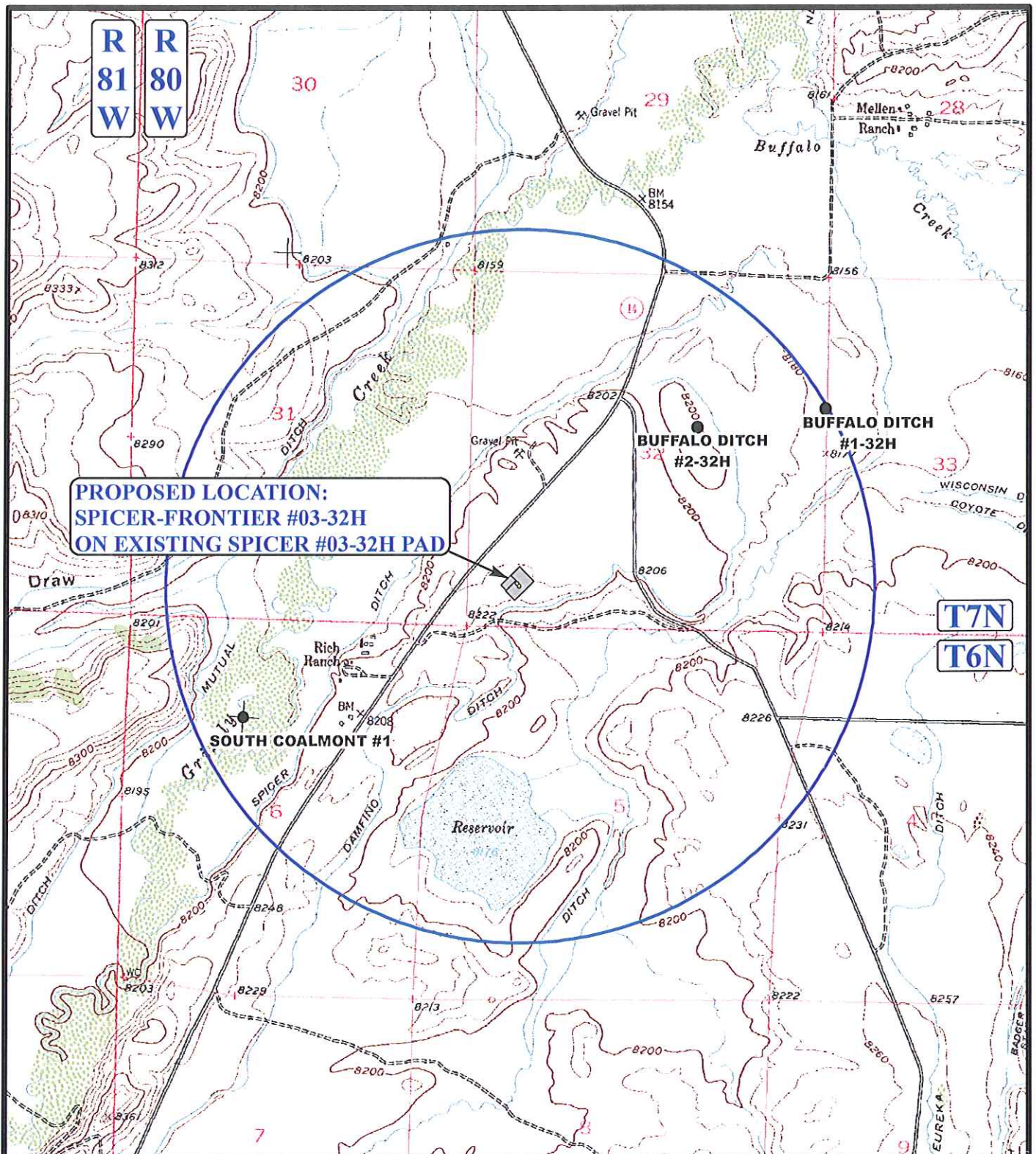
**ACCESS ROAD**  
**MAP**

**10** **19** **13**  
 MONTH DAY YEAR



SCALE: 1"=2000' DRAWN BY: J.C. REVISED: 00-00-00





# **LEGEND:**

- Ø DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



**EE3 LLC.**

**SPICER-FRONTIER #03-32H ON EXISTING  
SPICER #03-32H PAD  
SECTION 32, T7N, R80W, 6th P.M.  
607' FSL 786' FWL**



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**TOPOGRAPHIC  
MAP**

**10 21 13**  
MONTH DAY YEAR

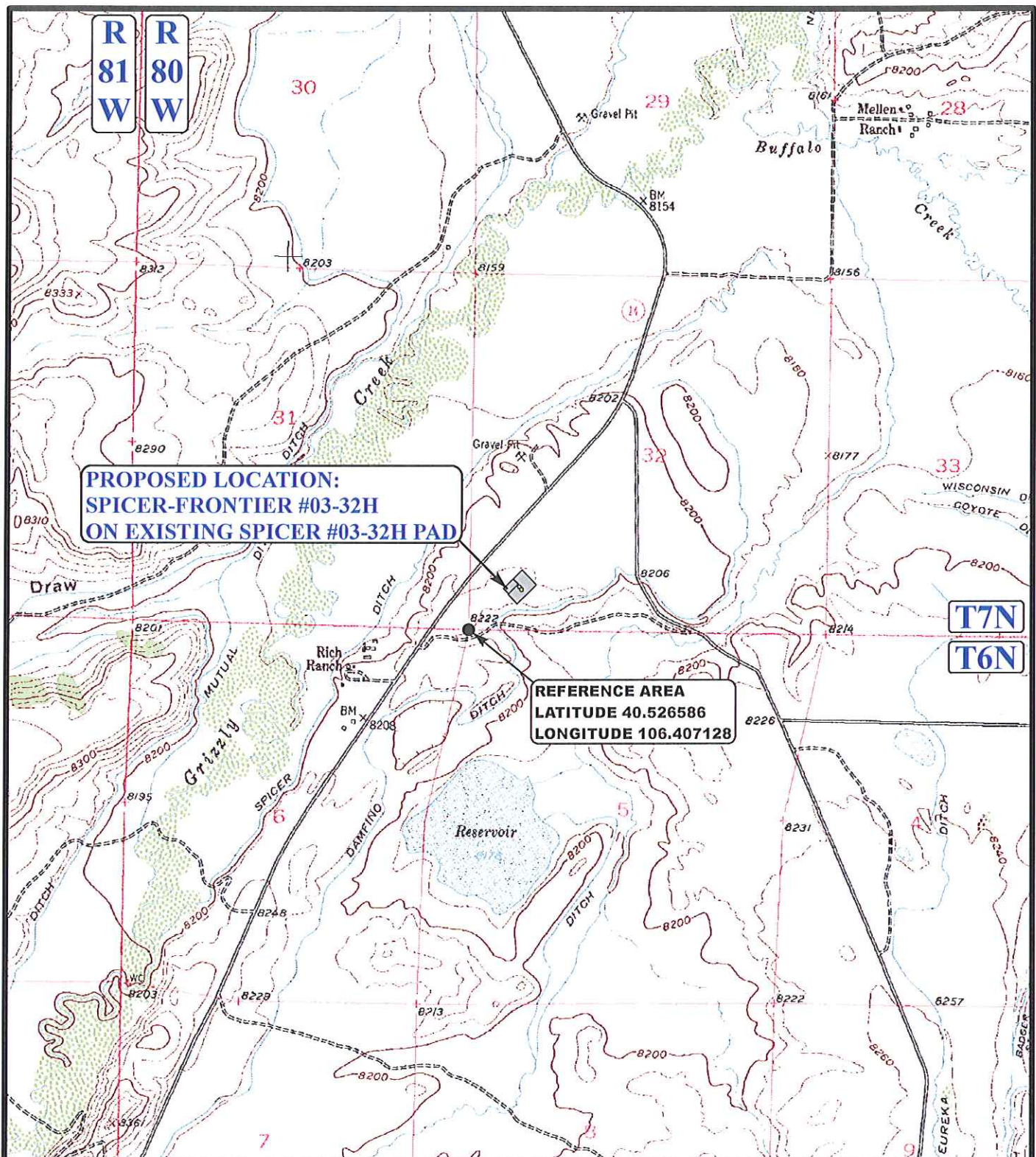
SCALE: 1"=2000'

DRAWN BY: J.C.

REVISED: 00-00-00







**LEGEND:**

**EE3 LLC.**

**SPICER-FRONTIER #03-32H ON EXISTING  
SPICER #03-32H PAD  
SECTION 32, T7N, R80W, 6th P.M.  
607' FSL 786' FWL**



**Uintah Engineering & Land Surveying**  
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**REFERENCE AREA  
MAP**

**10 21 13**  
MONTH DAY YEAR

**REF  
TOPO**

SCALE: 1"= 2000'

DRAWN BY: J.C.

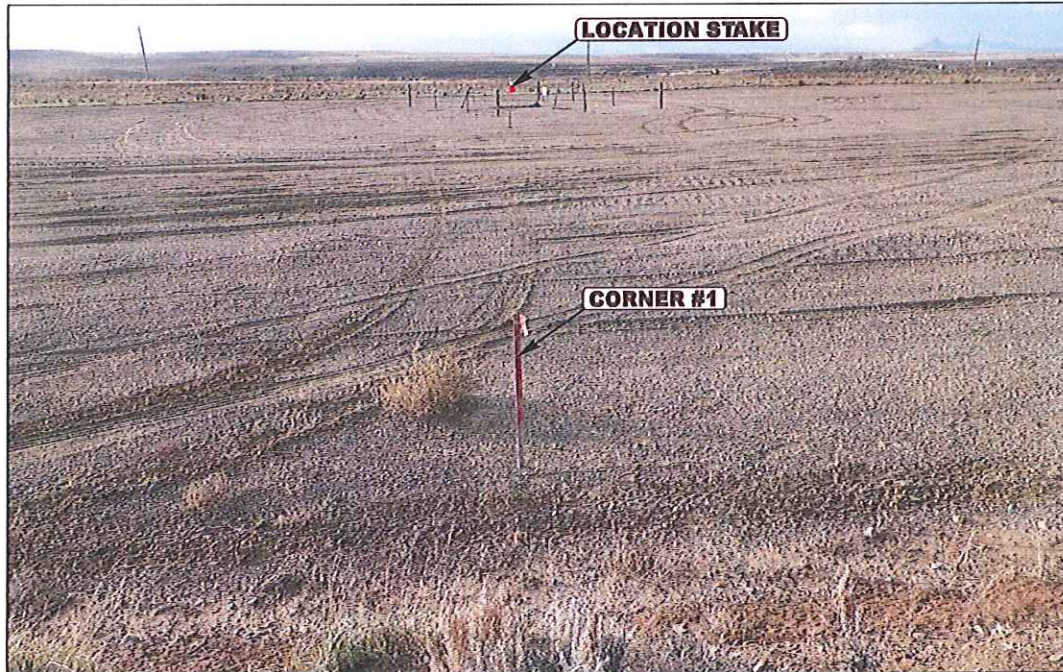
REVISED: 00-00-00







**EE3 LLC.**  
**SPICER-FRONTIER #3-32H ON EXISTING SPICER #3-32H PAD**  
**LOCATED IN JACKSON COUNTY, COLORADO**  
**SECTION 32, T7N, R80W, 6th P.M.**



**PHOTO: VIEW OF LOCATION STAKE FROM CORNER #1**

**CAMERA ANGLE: NORTHWESTERLY**



**PHOTO: VIEW FROM BEGINNING OF EXISTING ACCESS**

**CAMERA ANGLE: SOUTHWESTERLY**



- Since 1964 -



Uintah Engineering & Land Surveying  
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**LOCATION PHOTOS**

**10 16 13**  
MONTH DAY YEAR

**PHOTO**  
**P1**

TAKEN BY: D.S.

DRAWN BY: J.C.

REVISED: 00-00-00



**EE3 LLC.**  
**SPICER-FRONTIER #3-32H ON EXISTING SPICER #3-32H PAD**  
**LOCATED IN JACKSON COUNTY, COLORADO**  
**SECTION 32, T7N, R80W, 6th P.M.**



**PHOTO: VIEW OF LOCATION STAKE**

**CAMERA ANGLE: NORTHERLY**



**PHOTO: VIEW OF LOCATION STAKE**

**CAMERA ANGLE: EASTERLY**



**UELS**

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**LOCATION PHOTOS**

**10** **16** **13**  
MONTH DAY YEAR

TAKEN BY: D.S.

DRAWN BY: J.C.

REVISED: 00-00-00

**PHOTO**  
**P2**



**EE3 LLC.**  
**SPICER-FRONTIER #3-32H ON EXISTING SPICER #3-32H PAD**  
**LOCATED IN JACKSON COUNTY, COLORADO**  
**SECTION 32, T7N, R80W, 6th P.M.**



**PHOTO: VIEW OF LOCATION STAKE**

**CAMERA ANGLE: SOUTHERLY**



**PHOTO: VIEW OF LOCATION STAKE**

**CAMERA ANGLE: WESTERLY**



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**LOCATION PHOTOS**

**10** **16** **13**  
MONTH DAY YEAR

TAKEN BY: D.S.

DRAWN BY: J.C.

REVISED: 00-00-00

**PHOTO**  
**P3**



**EE3 LLC.**

**SPICER-FRONTIER #3-32H ON EXISTING SPICER #3-32H PAD**

**LOCATED IN JACKSON COUNTY, COLORADO**

**SECTION 32, T7N, R80W, 6th P.M.**



**PHOTO: VIEW OF REFERENCE AREA**

**CAMERA ANGLE: NORTHERLY**



**PHOTO: VIEW OF REFERENCE AREA**

**CAMERA ANGLE: EASTERLY**



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(435) 789-1017 \* FAX (435) 789-1813

**REFERENCE AREA  
PHOTOS**

<b>10</b>	<b>16</b>	<b>13</b>
MONTH	DAY	YEAR

TAKEN BY: D.S.

DRAWN BY: J.C.

REVISED: 00-00-00

**PHOTO  
REF 1**



**EE3 LLC.**  
**SPICER-FRONTIER #3-32H ON EXISTING SPICER #3-32H PAD**  
**LOCATED IN JACKSON COUNTY, COLORADO**  
**SECTION 32, T7N, R80W, 6th P.M.**



**PHOTO: VIEW OF REFERENCE AREA**

**CAMERA ANGLE: SOUTHERLY**



**PHOTO: VIEW OF REFERENCE AREA**

**CAMERA ANGLE: WESTERLY**



- Since 1964 -

**UELS**

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**REFERENCE AREA  
 PHOTOS**

<b>10</b>	<b>16</b>	<b>13</b>
MONTH	DAY	YEAR

**PHOTO  
 REF2**

TAKEN BY: D.S.	DRAWN BY: J.C.	REVISED: 00-00-00
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EE3 LLC.  
SPICER-FRONTIER #03-32H ON EXISTING  
SPICER #03-32H PAD  
SECTION 32, T7N, R80W, 6<sup>th</sup> P.M.

PROCEED IN A WESTERLY, THEN SOUTHERLY DIRECTION FROM WALDEN, COLORADO ON STATE HIGHWAY 125 APPROXIMATELY 1.2 MILES TO THE JUNCTION OF THIS ROAD AND HIGHWAY 14 TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY, THEN SOUTHWESTERLY, THEN SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 16.3 MILES TO THE JUNCTION OF THIS ROAD AND COUNTY ROAD 28 TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE EXISTING SPICER #03-32H PAD AND THE PROPOSED LOCATION.

TOTAL DISTANCE FROM WALDEN, COLORADO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 17.7 MILES.

**EE3 LLC.**

SPICER-FRONTIER #3-32H ON EXISTING SPICER #03-32H PAD  
SECTION 32, T7N, R80W, 6th P.M.  
DATE: 10-23-13

WELL NAME: SPICER-FRONTIER #3-32H		
VISIBLE IMPROVEMENTS FROM PROPOSED WELL		
EXISTING FEATURE	DIRECTION	LENGTH
BUILDING	S71°W	2277'
BUILDING UNIT	S65°W	2738'
HIGH OCCUPANCY BUILDING UNIT	OVER 1 MILE	
DESIGNATED OUTSIDE ACTIVITY AREA	OVER 1 MILE	
PUBLIC ROAD	S50°W	672'
ABOVE GROUND UTILITY	S53°E	299'
RAILROAD	OVER 1 MILE	
PROPERTY LINE	SOUTH	607'