

MOUNTAIN WEST SURVEYS, INC.

P. O. Box 65
 KREMMLING, COLORADO 80459
 (303) 724-3338

JOB BURTON - HAWKS (WELL SITE 16-2)

SHEET NO. _____ OF _____

CALCULATED BY SLA. DATE MAY 1, 1980

CHECKED BY PJO. DATE MAY 1, 1980

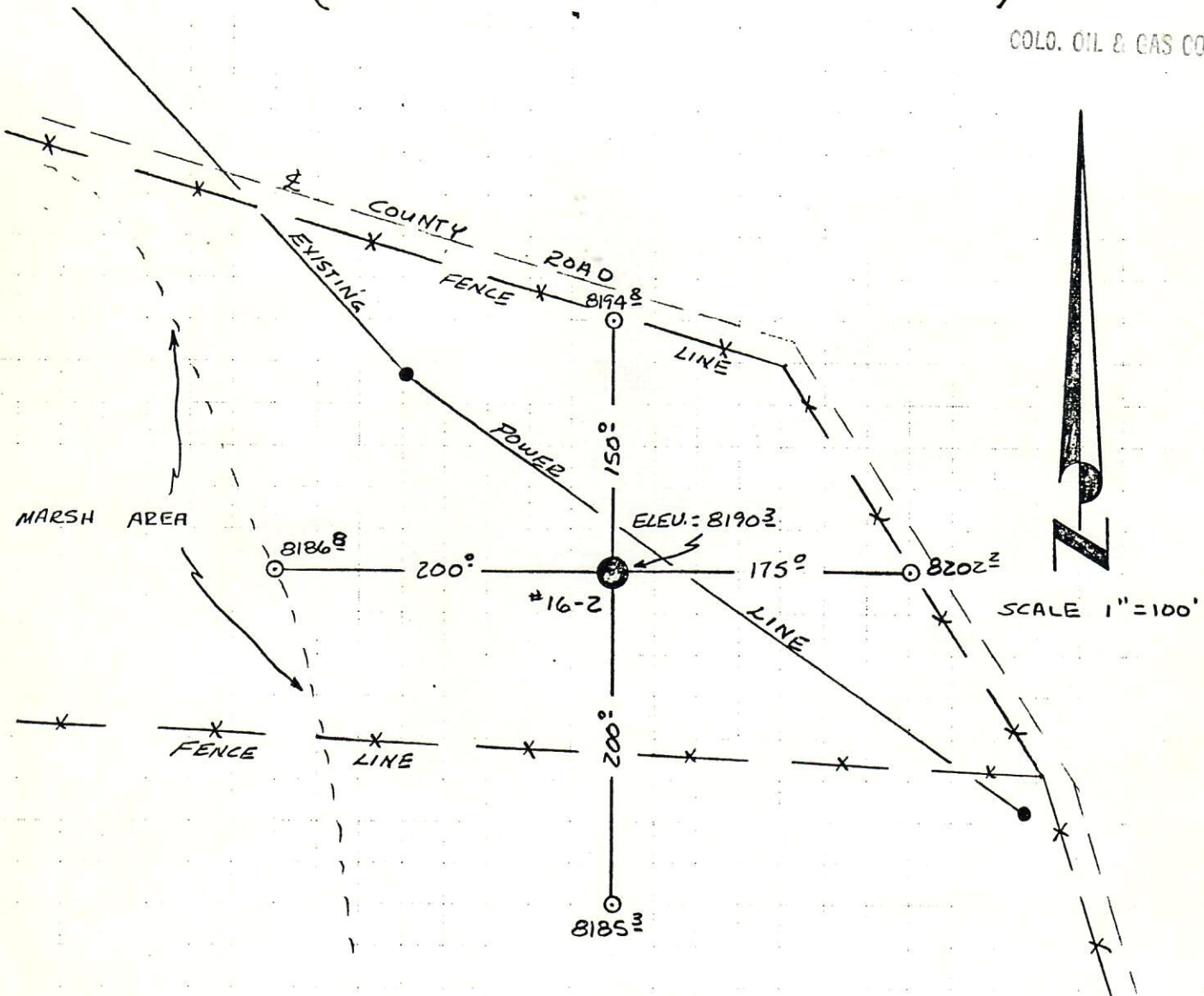
SCALE 1" = 100'

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MAY 9 1980

COLO. OIL & GAS CONS. COMM.

(FOR BURTON-HAWKS INC. USE ONLY)



- = #5 REBAR WITH ALUMINUM TAG
- = STAKE AND LATH



MAY 9 1980

COLD. OIL & GAS CONS. COMM.

DATE: May 2, 1980

STATEMENT OF RECLAMATION

BURTON/HAWKS, INC. will reclaim any and all lands affected by the operations under our special use permit to the status and quality of the said lands prior to the commencement of operations, provided that any road improvements made as a result of our operation shall not be destroyed under our reclamation obligation, unless approved by the landowner. Reclamation will include, but not be restricted to, refilling of all excavations created by operations conducted under the authority of the permit to the original contour level (provided that if such excavations cannot be immediately restored, the excavations shall be fenced until such time as they shall be restored), reclamation in accordance with our statements submitted for the Jackson County 17 Point Surface Development and Well Control Plan requirements, and the reseeding of any areas where the vegetation is destroyed by operations conducted under the authority of the permit with vegetation equivalent to that destroyed.

SEAL:

BURTON/HAWKS, INC.
Operator or Company

CASPER, WYOMING

By: Robert E. Willson

EXPLORATION MANAGER
Title

Burton Hawks Drilling Co.

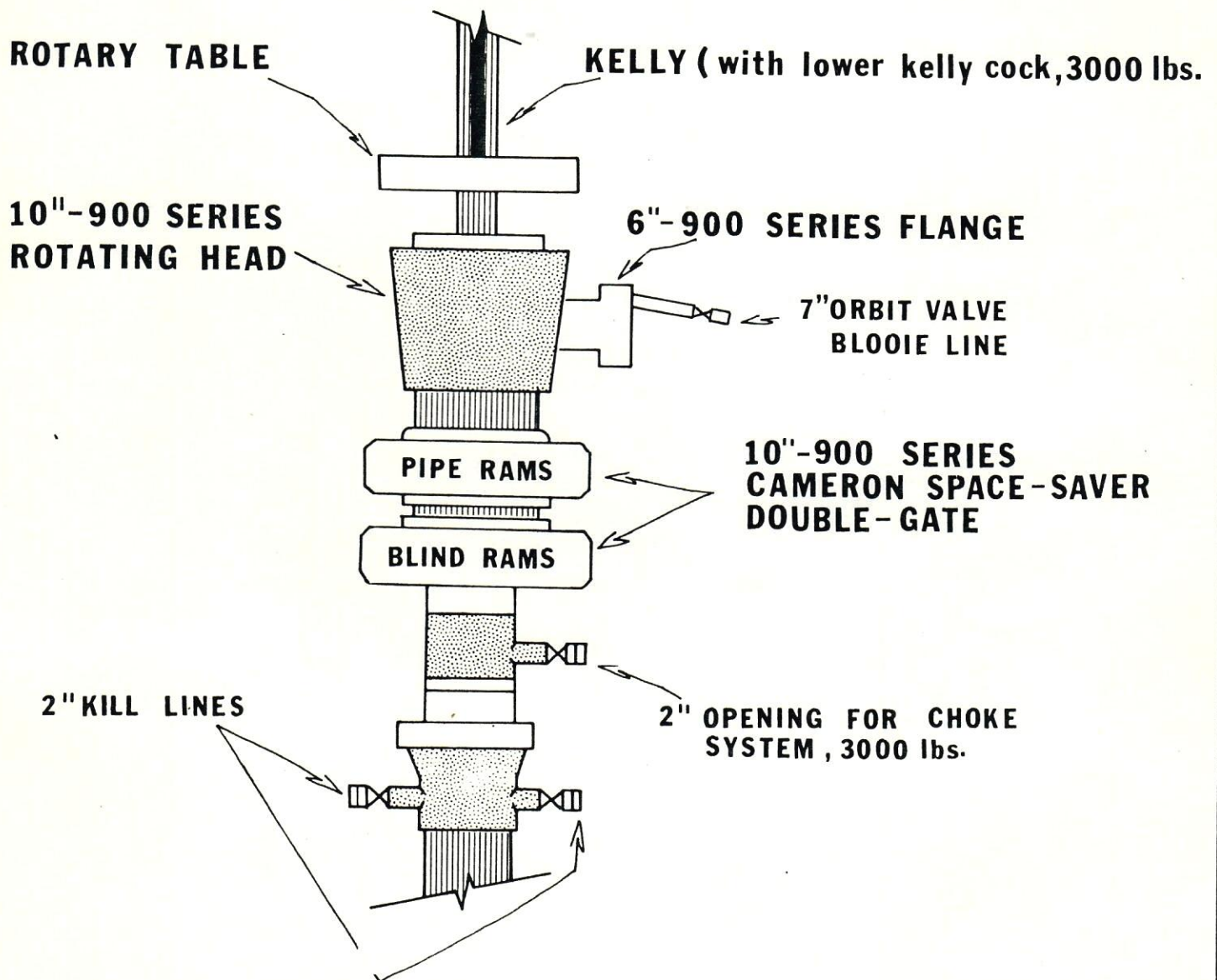
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COLORADO OIL & GAS CONS. COMM.

STATEMENT OF DEVELOPMENT

BOP STACK



Rig no. 1

NOT TO SCALE

PROPOSED PRODUCTION FACILITIES

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BURTON/HAWKS, INC.

#16-2 STATE

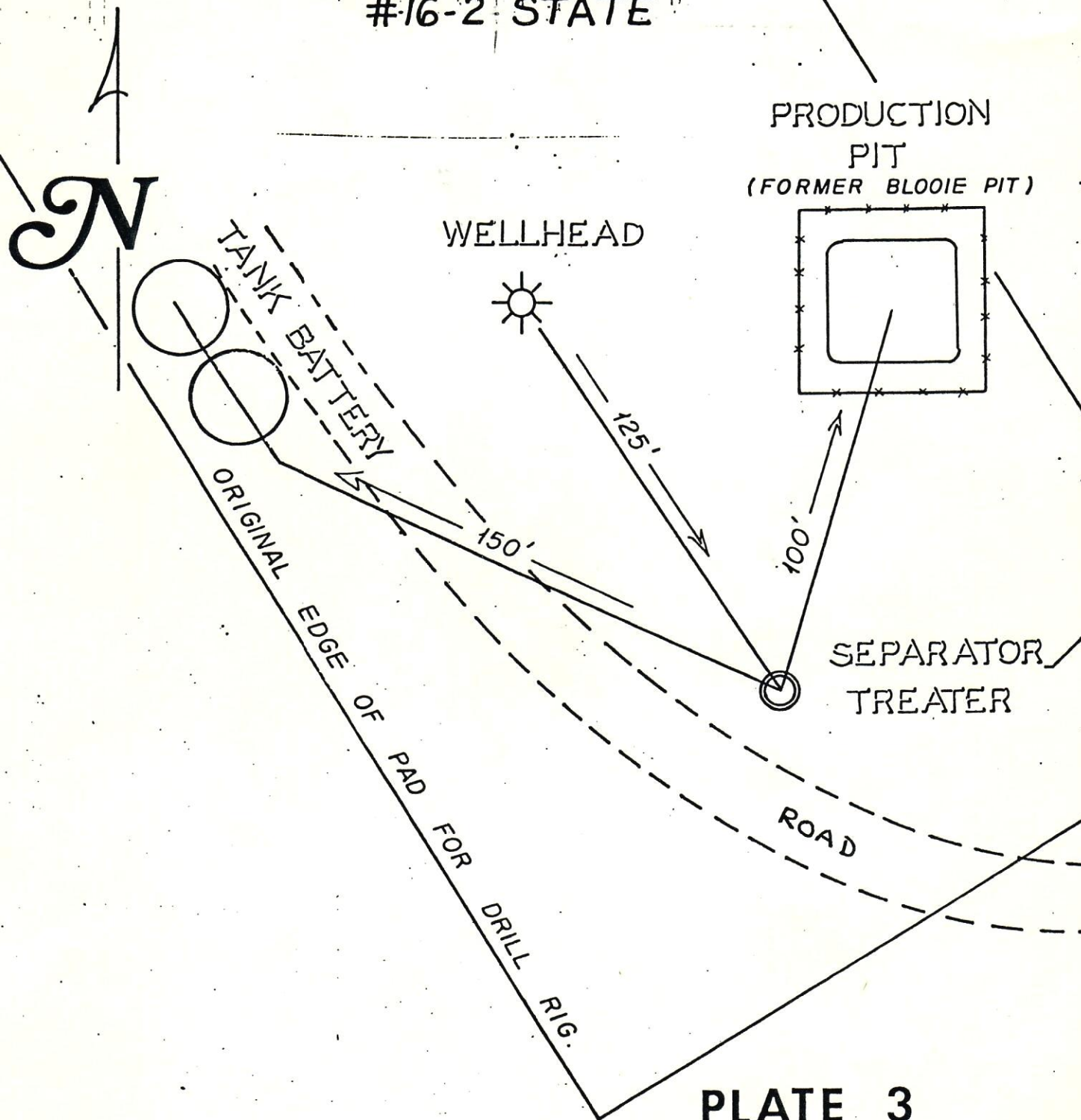


PLATE 3

#16-2 State
Sec 16 T9N R81W
Jackson County, Colorado
Elevation: 8190' GR
Page 2

File

Tom Buttz

B/H Interest: APO - 43.75%
Contractor: Madexco
Operator: Burton/Hawks, Inc.
North Lone Pine Prospect

- 05-26-81 Depth 980' Hit water @ 780'. Drled 19 hrs w/bit #3 - made 527'. Bit #4 6 3/4" Security, M4NJ Serial #852930. Air misting - 12 to 15 bbls of water - 5 bbls soap. Survey's: 308 10° - 780 60° - 809 60° - 930 6 1/2°. Rig service 1/4 hr. drlg 18 hrs, survey 1 1/2 hrs, clean hole 1/4 hr., trip 4 hrs.
- 05-27-81 Depth 1528' (estimated 140' east of surface location). Drled 643' Operation: drlg. Survey's: 1075' 100° - 1151' 100° - 1236' 10 1/4° - 1300' 10 1/2° - 1378' 80° - 1453' 5 1/2°. Drled 22 3/4 hrs on bit #4. Drlg 21 1/2 hrs., sur 2 1/2 hrs.
- 05-28-81 Drled 226' in 7 hrs., Drled w/bit #4 for 31 hrs - 844'. Survey's: 1528' 20° - 1579' 3/40° - 1629' 10° - 1704' 10° - 1804' 2 1/4° - 1905' 10°. Air pressure - 300#. Present operation: drlg. Drlg 15 1/2 hrs., survey 2 3/4 hrs., trip 5 1/2 hrs., blow hole to clean 1/4 hr. Bit #5 6 1/2" Reed FP52 Serial #904995
- 05-29-81 Survey's: 2030' 20° - 2306' 120°. Trips 4 1/4 hrs., blow hole to clean 1/4 hr., Drlg 17 hrs., sur 1 hr., rig repair 3/4 hr., rig service 1/4 hr.
- 05-30-81 Changed from air to mud. Ream & wash ^{hole} ~~hole~~ 3 1/2 hrs., sur 1 1/2 hrs., trip 9 1/2 hrs., mix mud 1 hr., drled 7 1/2 hrs. MW 8.8, WL 9.2, vis 45
- 05-31-81 Depth 3310' MW 8.9 to 9.1, vis 60, WL 9. Pump psi - 800 to 900#. Drled for 41 1/2 hrs w/bit #5, made 147'. Drlg 16 hrs., mix mud 1 1/4 hrs., sur 3/4 hr., ream 4 1/2 hrs. Mowry Formation: 3140'
- 06-01-81 Depth 3586' Drled for 63 hrs w/bit #5. Formation Tops: Dakota 3510' (tight) No shows. Lakota 3580' (upper tight) No shows. Have not drled into any porosity yet. vis 48, MW 8.9, WL 12. Drlg 20 1/2 hrs., Survey 3/4 hr @ 3400' 70, pump repair 1 1/4 hrs., rig repair 1 hr.
- 06-02-81 Depth 3685' Survey @ 3684' 170°. Operation: tripping. Vis 50, MW 9.1, WL 9.9 Drlg 8 hrs., mix mud 1 1/4 hrs., survey 3/4 hr., rig repair 1 1/4 hrs., trip 13 1/2 hrs., Drled for 72 hrs w/bit #5 - 778'. Bit #6 - 6 1/2" Reed HP52 - Serial #910666.

#16-2 State
Sec 16 T9N R81W
Jackson County, Colorado
Elevation: 8190' GR
Page 2

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JUN 8 1981

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- 06-03-81 Depth 3760' Survey @ 3736' 210. Operation: Rigging up logger - prep to log. vis 75, MW 9.2, WL 8.9. Trip 6 1/2 hrs., drlg 12 3/4 hrs., survey 1 1/2 hrs., mix mud to cir for logging 3 1/2 hrs., Drled for 12 3/4 hrs w/bit #6 -

DVR
FJP
MHM
JAM
JJD
RLS
CGM

Tommy Burtz

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JUN 3 1981
GOLD, OIL & GAS CONS. COMM.

B/H Interest: APO - 43.75%
Contractor: Madexco
Operator: Burton/Hawks, Inc.
North Lone Pine Prospect

#16-2 State
Sec 16 T9N R81W
Jackson County, Colorado
Elevation: 8190' GR
Page 2

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MMH
JAM
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OGM

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JUN 1 1981

COLO. OIL & GAS CONS. COMM.

Tom Bretz

B/H Interest: APO - 43.75%
Contractor: Madexco
Operator: Burton/Hawks, Inc.
North Lone Pine Prospect

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5 bbls soap. Survey's: 308 1° - 780 6° - 809 6° - 930 6½°. Rig service ¼ hr.
drlg 18 hrs, survey 1½ hrs, clean hole ¼ hr., trip 4 hrs.
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Present operation: drlg. Drlg 15½ hrs., survey 2 3/4 hrs., trip 5½ hrs.,
blow hole to clean ¼ hr. Bit #5 6½" Reed FP52 Serial #904995

DVR	
FJR	
HHM	
JAM	
JJD	
RLS	
CGM	

Tom Bratz

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MAY 29 1981

COLORADO OIL & GAS CONS. COMM.

B/H Interest: APO - 43.75%
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MAY 28 1981

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North Lone Pine Prospect

04-27-81 MIRT

04-28-81 No Report

04-29-81 No Report

04-30-81 No Report

05-01-81 No Report

05-02-81 No Report

05-03-81 Rigging down.

05-04-81 Rooding rig to Walden, Colorado. Started to rig up.

05-05-81 Rigging up.

05-06-81 Waiting on parts. TAC \$28,424 (est)

05-07-81 Depth 289' - drlg @ base of gravel & top of Pierre shale @ 70'. 7 hrs rig-up, 4 hrs drlg, 3 hrs tripping, 1½ hrs rig up & run csg. 8 hrs washing down csg to get thru the gravel, blowing csg to btm. TAC \$38,624

05-08-81 Depth 289'. Blowing csg to btm thru caving gravel. Twisted bottom joint out of collar. Screwed back into collar, cmted w/177 sx class G cmt. Cmt w/1# Cella flake & 2% CaCl⁻. Cmt came to surface both inside and outside conductor pipe. Did not pump plug down. Let cmt stabilize in csg. Stopped pumping @ 03:00 on 05-09-81.

05-09-81 Depth 289' WOC 12 hrs. Air compressor and rig charges stop at this point until malfunctioning rig components are replaced and soft location is stabilized.

05-20-81 Anticipate to be drlg on Thursday, May 21.

05-21-81 No Report

05-22-81 Moving Madexco rig off of location - moving on Denton Brothers rig.

05-23-81 Rig down load trucks. Rig up Denton Brothers.

05-24-81 Rig up & repair rig.

05-25-81 Rig up 8½ hrs, drlg 8 ¾ hrs, sur 2 hrs, dry hole 1 hr, trip 3 ¾ hrs, rig repair ½ hr. Bit #2-8 ¾"-Reed-serial #349334 HS 51-J-drlled 179' in 3½ hrs-jets open. Bit #3-6 ¾"-Security-serial #221690-drlled 176' in 5½ hrs-jets open. Survey @ 609' 5°.

#16-2 State
Sec 16 T9N R81W
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North Lone Pine Prospect

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MAY 26 1981

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LVR
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CEM

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MAY 18 1981

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Sec 16 T9N R81W
Jackson County, Colorado
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DWR	
PJP	
HMM	
JAM	
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RLS	
CGM	

#16-2 State
Sec 16 T9N R81W
Jackson County, Colorado
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*Tom - Please note operator
change - On the first
rpt I sent - Madexco
was listed as operator
If you have any questions
do not hesitate to call -*

*Debbie Murphy
Biological Sec.
Burton/Hawks, Inc.*

DVR	
RJP	
WHM	
JAM	
JJD	
RLS	
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MAY 9 1980

JACKSON COUNTY 17 POINT

SURFACE DEVELOPMENT AND WELL CONTROL PLAN

COLO. OIL & GAS CONS. COMM.

Burton/Hawks, Inc.
#16-2 State
2281 FEL, 2063.5 FSL
NW SE Section 16, T9N, R81W
Jackson County, Colorado

1. See attached survey plat.
2. The total number of acres required for the drillsite operation is approximately 2. The size of the pad will be approximately 200' x 375'.
3. Existing roads: See topo map attached. The drillsite lies alongside the main traveled county (?) road along the southwest side of Sheep Mountain.
4. The access road will be only 200' or so in length, as the drillsite is close to the main road. This is a state lease; however, the surface is owned by Robert Richards, and agreement has been reached with him in regard to right-of-way, damages, and water.
5. All wells and dry holes within a two mile radius of the proposed location are shown on the accompanying map.
6. N/A
7. See plat.
8. See attached map. The North Fork North Platte River lies about 700' west of the drillsite and only slightly topographically lower. We intend to air drill this hole to T.D. if possible, which will send only rock dust to the blooie pit if the hole remains dry and "dusts" all the way.

In the event that we hit water, it will be necessary to inject a soap-mist in with the air to keep the hole clean. If this happens, the blooie pit and reserve pit will be visually monitored closely to insure that no overflow will take place. If necessary, we will truck out and dispose of the water at a location acceptable to the County Administration Planner. Our experience in the area indicates that water from the zones we penetrate is quite fresh, and the small amount of soap used (5 gallons per hour) is non-detergent, and even in the event of an accident, little damage to the environment would occur.

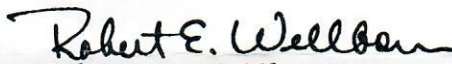
A severe water flow would probably cause us to mud-up the hole, and complete the drilling operation with mud. In any event, an adequate sized reserve pit and blooie pit will be constructed at this site to handle any emergency.

9. The water supply will be obtained from Robert Richards ranch (shown as Fliniau Ranch on the map), from the North Fork North Platte River about 600' west of the ranch house. The route to the well via water truck, is shown in dashed red.
10. Waste disposal:
Cuttings: Air drilled cuttings will be blown into the blooie pit, and when dried out will be covered over to a depth of 8' during restoration of the pit. In the event of mud drilling, the cuttings will be directed into the reserve pit, and also covered over during restoration to a depth of 8'.
Trash and Garbage: These items will be stored in a fenced pit to prevent blowing. They will either be hauled away to the dump, or else buried at the discretion of the Administrator Planner. A portable toilet will be on location.
11. No camps.
12. No airstrips.

13. Rig layout attached.
14. Prognosis and well control plan:
 - a, c, g) Drill 20" hole to 40'.
Run 40' of 13 3/8", 48#, conductor pipe and cement to surface.
Drill 8 3/4" pilot surface hole with air through the first severe water flow, or to 2200' if no hole problems.
Run 7", 23#, K-55 to this depth and cement with 100 sacks.
Drill 6 1/4" hole to 3700' T.D. with air if possible, or mud-up to complete hole if necessary.
 - b) Weld on 13 3/8" flange to drill 8 3/4" hole; rotating head on top of spool with orbit valve on blooie line.
 - d) Utilize stack as shown on diagram after setting 7" casing.
 - e) Auxiliary equipment:
 1. Kelly cock
 2. Drill pipe float
 3. A sub on the floor with a full opening valve to be stabbed into drill pipe when kelly is not in the string.
 - f) Anticipated bottom hole pressure: Slightly above normal bottom hole pressure might be anticipated. At Lone Pine field, one mile to the south, the original reservoir pressure was 1180 PSI at 2500' for an average pressure gradient of .472#/foot. These wells flowed oil for a while, then the pressure leveled off at about 1080 PSI after pumps were installed. At this same original gradient, the Lakota at 3700' should have a pressure of 1746#.
15. Restoration of surface: All of the points set forth under the Jackson County Requirements a) through g) will be met.

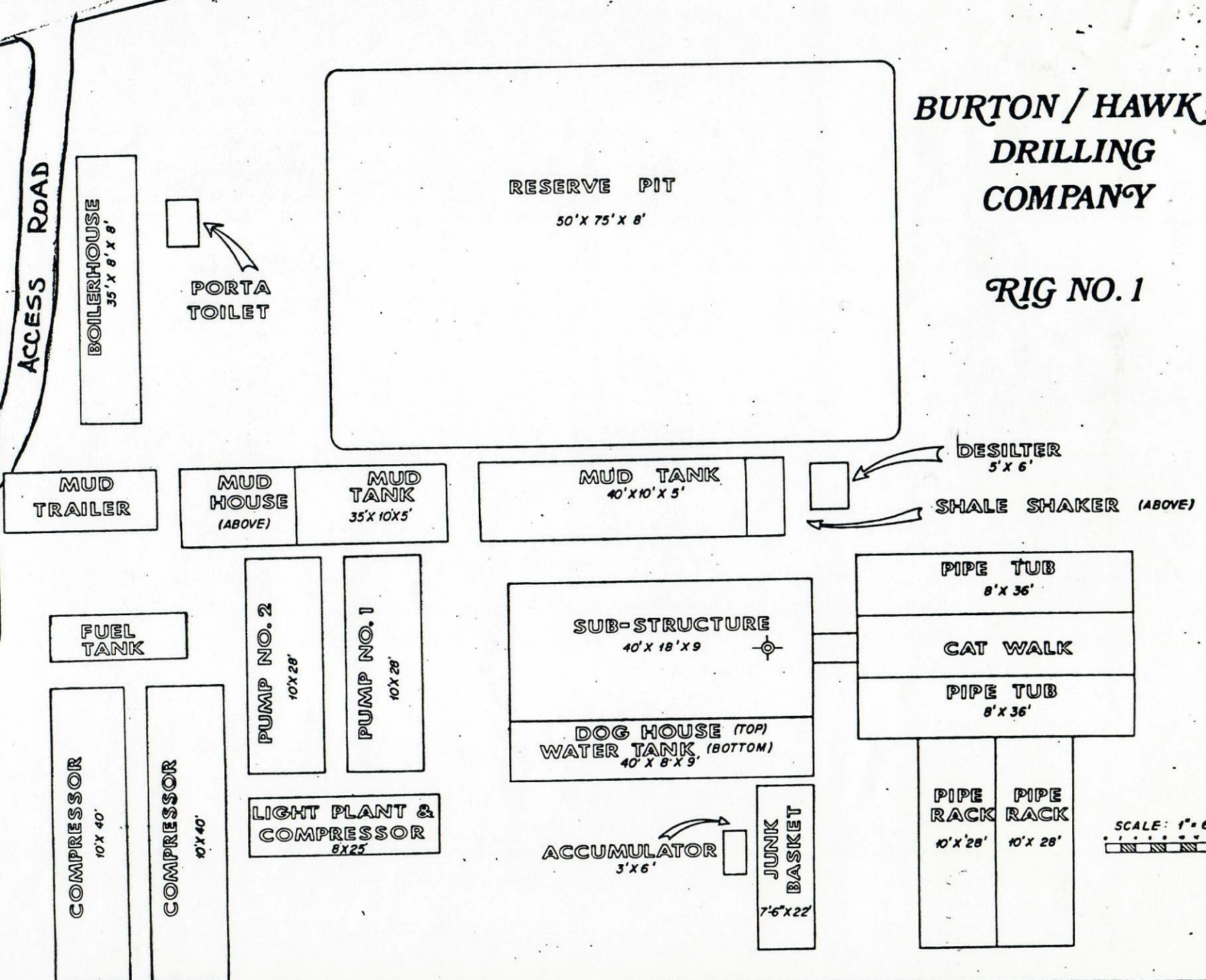
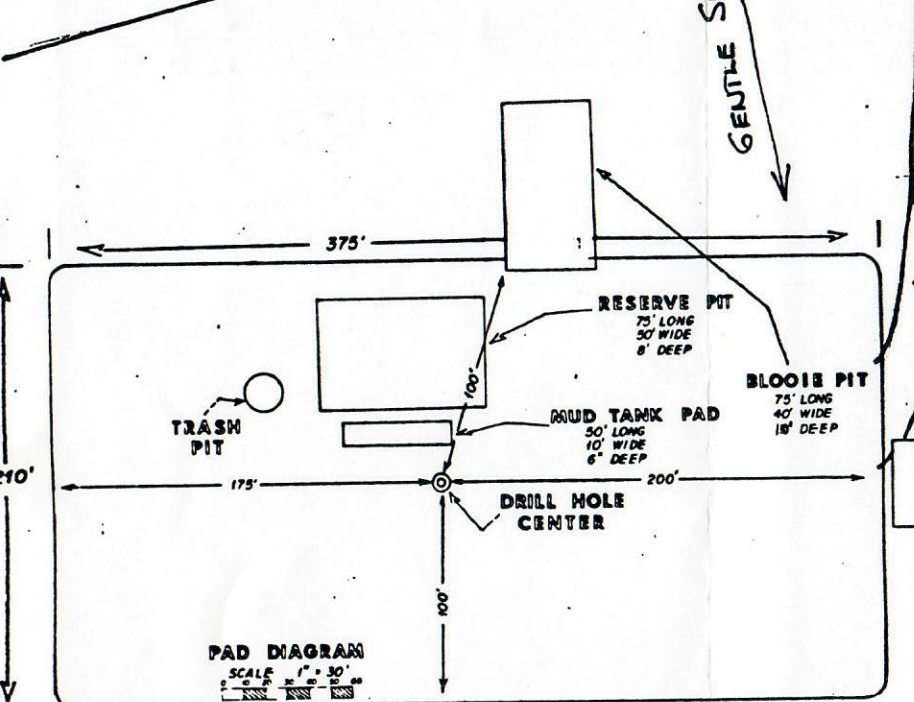
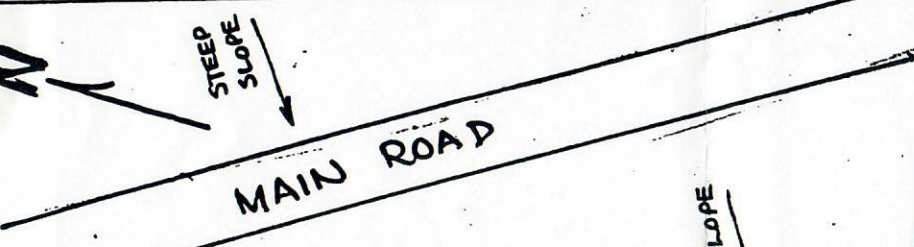
Time Schedule:

 - May 10: Start dirt work
 - May 19: Spudder on location to dig conductor hole and set conductor pipe. Note: This lease has a May 19, 1980 expiration date, and this activity will extend the expiration date.
 - June 15 - 30: Move on big rig to finish drilling the hole.
 - July 15: If dry hole, start restoration of surface outlined in points c), d), and e). Reseeding with an approved seed mixture shall be done at a time agreeable to the landowner and North Park Soil Conservation District. The area will be fenced following seeding if deemed necessary.
16. See accompanying agreement.
17. The proposed drillsite lies in a pasture alongside the main road. Topography is moderate at this point, and probably no more than 4-5' of cut on the upslope side will be necessary to build the location pad. The area near the road is dry; however, a few hundred feet to the west, the ground is boggy approaching the river.


Robert E. Wellborn
Exploration Manager

**BURTON / HAWKS
DRILLING
COMPANY**

RIG NO. 1



**RIGGED FOR MUD AND/OR
AIR DRILLING**

