

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
SKYLINE OIL COMPANY

3. ADDRESS OF OPERATOR
2000 University Club Building, S.L.C., Utah 84111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface 2196' FEL, 1710' FNL, SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 27, T.36 S., R. 23 E., SLB&M
At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
6 miles east of Blanding, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
444'

16. NO. OF ACRES IN LEASE
320

17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
None

19. PROPOSED DEPTH
6310'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
GL 5906'

22. APPROX. DATE WORK WILL START*
7-8-84

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
16"	13-3/8"	48#	30'	Redi Mix
12 1/2"	9-5/8"	36#	2100'	900 sx (Circ. to Surface)
8-3/4"	5 1/2"	15.5#	6310'	700 sx.

Expected Formation Tops:

Entrada	1055'	Hermosa	4575'
Navajo	1255'	Ismay	5925'
Chinle	2005'	Desert Creek	6175'
Moenkopi	2740'	Akah	6270'
Cutler	2915'		

RECEIVED
JUN 15 1984
DIVISION OF OIL
GAS & MINING

Mud program - See Attachment A
Blowout Prevention Program - See Attachment 'A'
Enclosure: A letter to the State of Utah asking for a Location Variance (C-3-c)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Clifford E. Selvin TITLE Senior Engineer DATE 6-14-84

(This space for Federal or State office use)

PERMIT NO. _____

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 6/18/84
BY: John K. Berg

*See Instructions On Reverse Side

ATTACHMENT A

SKYLINE OIL COMPANY
WILDCAT OIL WELL

Mustang Unit #27-32
Section 27, T36S - R23 E., SLM
San Juan County, Utah

1. The Geologic Name of the Surface Formation:

Morrison Formation (Jurassic)

2. Estimated Tops of Important Geologic Markers:

Entrada	1,055'
Navajo	1,255'
Chinle	2,005'
Ismay	5,925'
Desert Creek	6,175'
Akah Shale	6,270'

3. Water sands will be protected behind the surface pipe set at 2100'. Prospective oil producing formations are the Ismay and Desert Creek.

4. Proposed Casing Program:

<u>Hole Size</u> (in.)	<u>Csg. Size & Weight</u> (in.) (lbs/ft.)	<u>Cond.</u>	<u>Setting Depth</u> (ft.)	<u>Cement</u>
16"	13-3/8" 48	New	30'	Redi-mix
12 1/4"	9-5/8" 36	New	2100'	900 sx
8-3/4"	5 1/2" 15.5#	New	6310'	700 sx

Actual cement volumes will be determined by caliper log plus adequate excess.

5. Pressure Control Equipment:

Pressure control equipment will consist of a 10" 3000 psi W.P. double gate hydraulic BOP and a 10" 2000 psi W.P. Hydril above 10" 3000 psi W.P. casing head with screwed outlets. See schematic drawings of BOP assembly and choke manifold. We will wait on cement 12 hours, nipple up BOP assembly, and test to 2000 psi (Hydril to 1000 psi) and drill surface casing after 24 hours WOC. Pipe ram operation will be checked daily and blind rams operated when pipe is removed from hole on trips.

6. Drilling Mud Program:

<u>Interval</u>	<u>Program</u>
0 - 2250'	Fresh water with gel required to maintain viscosity at 28-32 sec.
2200 - 4000'	Fresh water, low solids & lightly dispersed MW: 8.8-9.0 Vis: 32-38 WL: 10-15
4000 - 6460'	Fresh water, low solids & lightly dispersed MW: 8.8-9.0 Vis: 36-40 WL: 10

7. Auxiliary Equipment:

Auxiliary equipment to be used will consist of a Kelly cock and a full-opening drillpipe valve sub in open position on the floor at all times. A bit float will not be utilized unless conditions dictate.

8. Testing, Coring and Logging Program:

Two drillstem tests are possible - one each in the Ismay and Desert Creek Formations.

30' to 90' of core in Ismay if warranted
30' to 60' of core in Desert Creek if warranted

The following logs will be run:

Dual Induction Log	TD to bottom of surface pipe
GR-FDC-CNL-Cal*	TD to bottom of surface pipe
GR-Sonic	TD to surface

*GR will be run to surface.

9. Anticipated Abnormal Pressures, Temperatures & Potential Hazards:

No abnormal pressures, temperatures or hazards are anticipated.

10. It is anticipated that drilling operations will commence on or about July 15, 1984 with approximately 20 days of drilling to reach T.D. Completion operations will require an additional 30 - 45 days.

MULTIPOINT SURFACE USE AND OPERATIONS PLAN
TO ACCOMPANY APPLICATION FOR PERMIT TO DRILL
PROPOSED EXPLORATORY WELL
SKYLINE OIL COMPANY
MUSTANG #27-32, SW NE Sec. 27, T. 36 S., R. 23 E., SLM,
EMERY COUNTY, UTAH

1. Existing Roads - Exhibits "A" and "B"

Topo Maps "A" and "B" show the well site as staked and its position relative to existing towns, roads and topography. To reach the drill site, take the road from Recapture Creek or the county road just south of Devils Canyon to the county road on Alkali Ridge. From the junction of these roads, continue south approximately $2\frac{1}{2}$ miles to access road to the right or west towards Skyline's well, Mustang #22-34, approximately $1\text{-}3\frac{3}{4}$ miles; the access road for this well crosses over the ridge and down into the valley and then south approximately 1 mile to the well site.

All existing roads are shown on Exhibit "A".

All county roads are maintained and are all-weather roads.

The San Juan County Road Department (801-587-2231, Ext. 43) will be contacted before county roads are used and an encroachment permit will be obtained.

Maintenance or improvements to existing county roads may be done if necessary.

2. Planned Access Road:

The operator or his contractor will contact the San Juan Resource Area Office in Monticello, Utah, (801) 587-2201), 48 hours before beginning any work on public land.

The attached Exhibit "A" shows the planned access road in red. The existing service road and the Access Road are within the Mustang Unit Area of which Skyline Oil Company is Operator. An access road is to be built, starting from a point approximately 300' north of Mustang #22-34 and extend over the hill and into the valley as presently flagged. The access road will be approximately 1 mile long with turnouts every 1000 feet; it is to be flat bladed and rockered low water crossings in the creek bed. The maximum grade on the hills is 10%, and a maximum total disturbed width to be 50'. In the flat areas, the maximum width is to be 20' except at turnouts. No cattle guards will be required. Approval to use the rock from the cut in the hill for road bed and low water crossing and site preparation has been obtained from BLM. If a permanent road is required, surface will be elevated, crowned, ditched and drainage installed as needed. Surfacing material will be gravel obtained through commercial sources.

The operator will give the dirt contractor a copy of the Surface Use Plan and any additional BLM stipulations before any work is permitted.

If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All employees working in the area will be informed by the operator that they are subject to prosecution for disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.

Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance. In the event of production, the access road will be water barred or brought to Class III Road Standards within 60 days of dismantling of the drilling rig.

3. Location of Existing Wells - Exhibit "B"

There are existing wells within a two-mile radius of proposed location as shown on Exhibit "B".

4. Location of Existing and/or Proposed Facilities

The proposed production facilities layout is shown on attached Exhibit "D" at a 1" - 50' scale. All production equipment, production pit and burn pit will be fenced. Two 500 barrel production tanks will be inside a 50' x 30' x 4.5' earthen retaining wall to prevent contamination in the unlikely event of a tank rupture. All flowlines will be buried and have working pressures exceeding the highest pressure anticipated for their use.

Location of Tank Batteries and Production Facilities

All permanent (onsite for six (6) months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earth tone color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Inter-Agency Committee. All facilities will be painted within six (6) months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1½ times the storage capacity of the battery.

All loading lines and valves will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

Gas meter runs for each well will be located within five hundred (500) feet of the wellhead. The gas flowline will be buried from the wellhead to the meter along with any other sections occurring on the pad. Meters will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three (3) months on new meter installations and at least quarterly thereafter. The Area Manager will be provided with a date and time for the initial meter calibration and all future meter-proving schedules. A copy of the meter calibration reports will be submitted to the Resource Area Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply:

Water used for drilling and completion operations will be obtained from Recapture Lake 4 miles north of Blanding, Utah.

Use of water for this operation will be approved by obtaining a temporary use permit from the Utah State Engineer (801) 637-1303 and by receiving permission from surface managing agency to use the land containing the water source.

6. Source of Construction Materials

Some outside construction materials will be required for drilling preparations. If gravel is needed, it will be purchased or obtained from an approved or private source for making the well site and access road serviceable.

Materials will not be obtained from Indian lands.

7. Methods of Waste Disposal:

The reserve pit will not be lined unless determined otherwise during construction. Three sides of the reserve pit will be fenced with four strands of barb wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.

A trash pit will be constructed near the mud tanks and dug at least six feet into solid undisturbed material. It will be totally enclosed with a fine wire mesh before the rig moves in. The road and pad will be kept litter free.

A burning permit is required for burning trash between May 1 and October 31. This can be acquired by contacting the State Fire Warden, John Baker, at (801) 587-2705.

Produced waste water will be confined to an unlined pit for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval.

8. Ancillary Facilities

Camp facilities will not be required at well site.

9. Well Site Layout - Exhibit "E"

The top 12" of soil material will be removed from the well site and stockpiled separately on the north-east side of the pad. Topsoil along the access road will be reserved in place. The access road will enter the pad on the east side as shown in Exhibit "E" of the well site plan.

Exhibit "D" shows the well site cross-sections showing amount of cut and fill required. Mud pits will be placed in at least 4' of cut material. Embankments will be placed in lifts and compacted.

10. Plans for Restoration of Surface

- a. Immediately on completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.
- b. The operator or his contractor will contact the San Juan Resource Area Office in Monticello, Utah, (801) 587-2201,

48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.

- c. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
- d. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.
- e. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12" deep with the contour.
- f. Water bars will be built as follows to control erosion.

<u>Grade</u>	<u>Spacing</u>
2%	Every 200 feet
2-4%	Every 100 feet
4-5%	Every 75 feet
5+%	Every 50 feet

- g. Seed will be broadcast between October 1 and February 28 with the following prescription. A harrow or similar implement will be dragged over the area to assure seed cover.

2 lbs/acre Indian ricegrass (Oryzopsis hymenoides)
 4 lbs/acre crested wheatgrass (Agropyron desertorum)
 2 lbs/acre Fourwing saltbush (Atriplex canescens)
 1 lb/acre Alfalfa
 2 lb/acre Wild sunflower (Helianthus annus)

- h. After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.
- i. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed as described in the reclamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

11. Surface and Mineral Ownership

The present Lessee of Record of Federal Lease U-46818 in Sec. 27, T. 36 S., R. 23 E. is Skyline Oil Company. The leasehold acreage is Federal with surface administered by the Bureau of Land Management.

12. Other Information

- A. The location and road will be along areas consisting of rock and wash material. An archeologist hired by Skyline Oil Company and approved by BLM will monitor all construction work on the lower road and well site.
- B. Vegetation includes Pinion Pine, Juniper, sagebrush, locoweed and a few native grasses. Fauna consists of deer, rabbits, ground squirrels, lizards of various types not exceeding 12 inches in length, and assorted flying and crawling insects.
- C. Grazing is the only surface use activity in the immediate area of the location.
- D. No dwellings of any kind exist in the area and archaeological, historical or cultural sites are apparently present. An archaeological inspection report is included as Exhibit "I". If subsurface cultural or paleontological material is exposed during construction, work will stop immediately and the San Juan Resource Area office contacted.
- E. The BLM representative (Mr. Brian Wood, 801 587-2201) will be notified 48 hours prior to initiation of any surface disturbance associated with a new access road or drilling pad location.
- F. There will be no deviation from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.2.
- G. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.
- H. The dirt contractor will be provided with an approved copy of the surface use plan.
- I. Upon completion of drilling operations, the BLM's representative will be notified of production and/or restoration plans.

This permit will be valid for a period of one (1) year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

- J. Any production facilities will be painted a single, low gloss, pastel color that blends in with the surrounding

soil, rock, and/or vegetation. Juniper green color has been approved by the BLM prior to application.

13. Lessee's or Operator's Representative

Skyline Oil Company's representatives are Mr. Michael D. Anderson or Clifford E. Selin, 2000 University Club Building, Salt Lake City, Utah 84111, telephone (801) 521-3500.

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed by Skyline Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

June 14, 1984

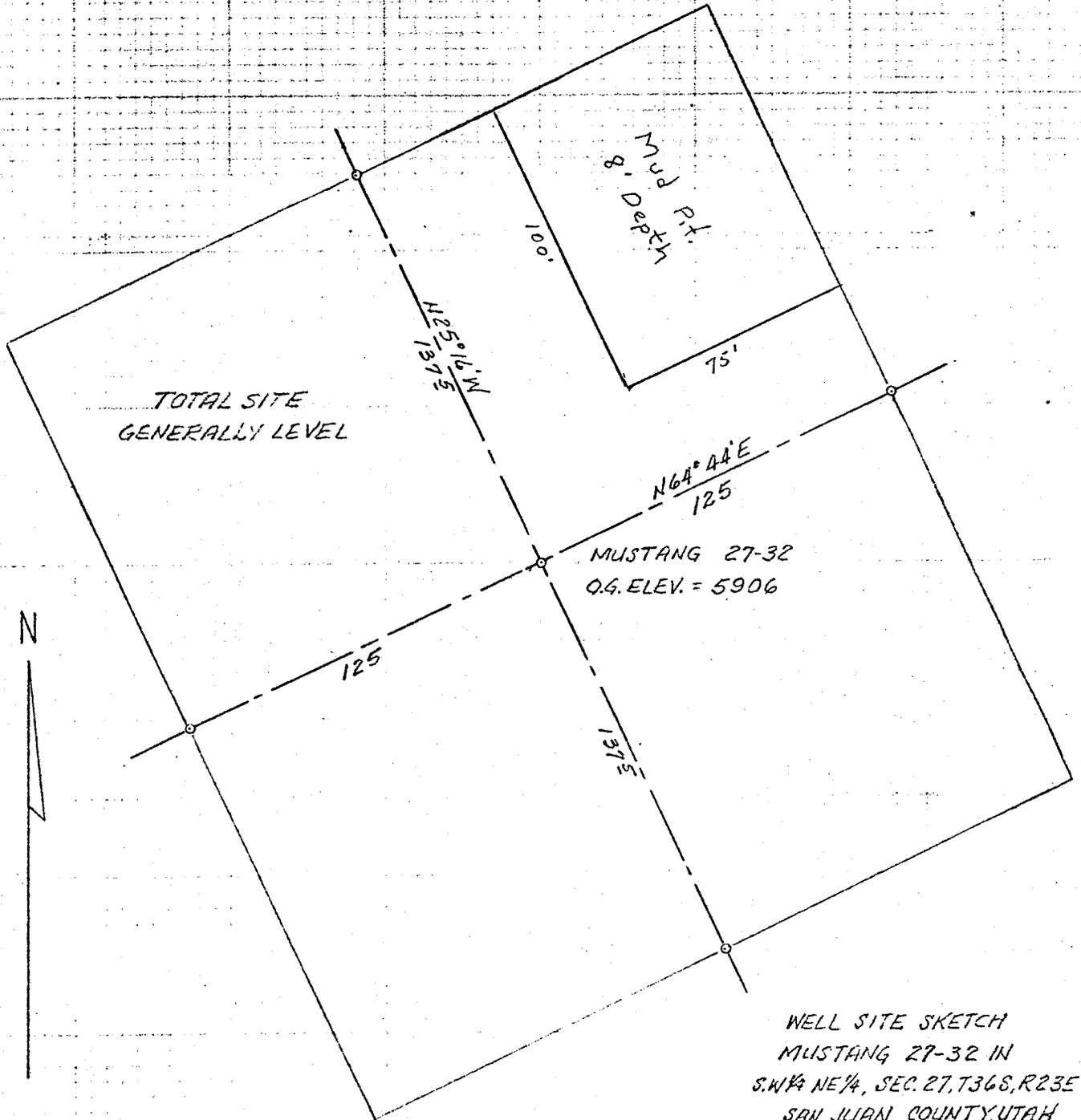
Date



Clifford E. Selin,
Senior Engineer

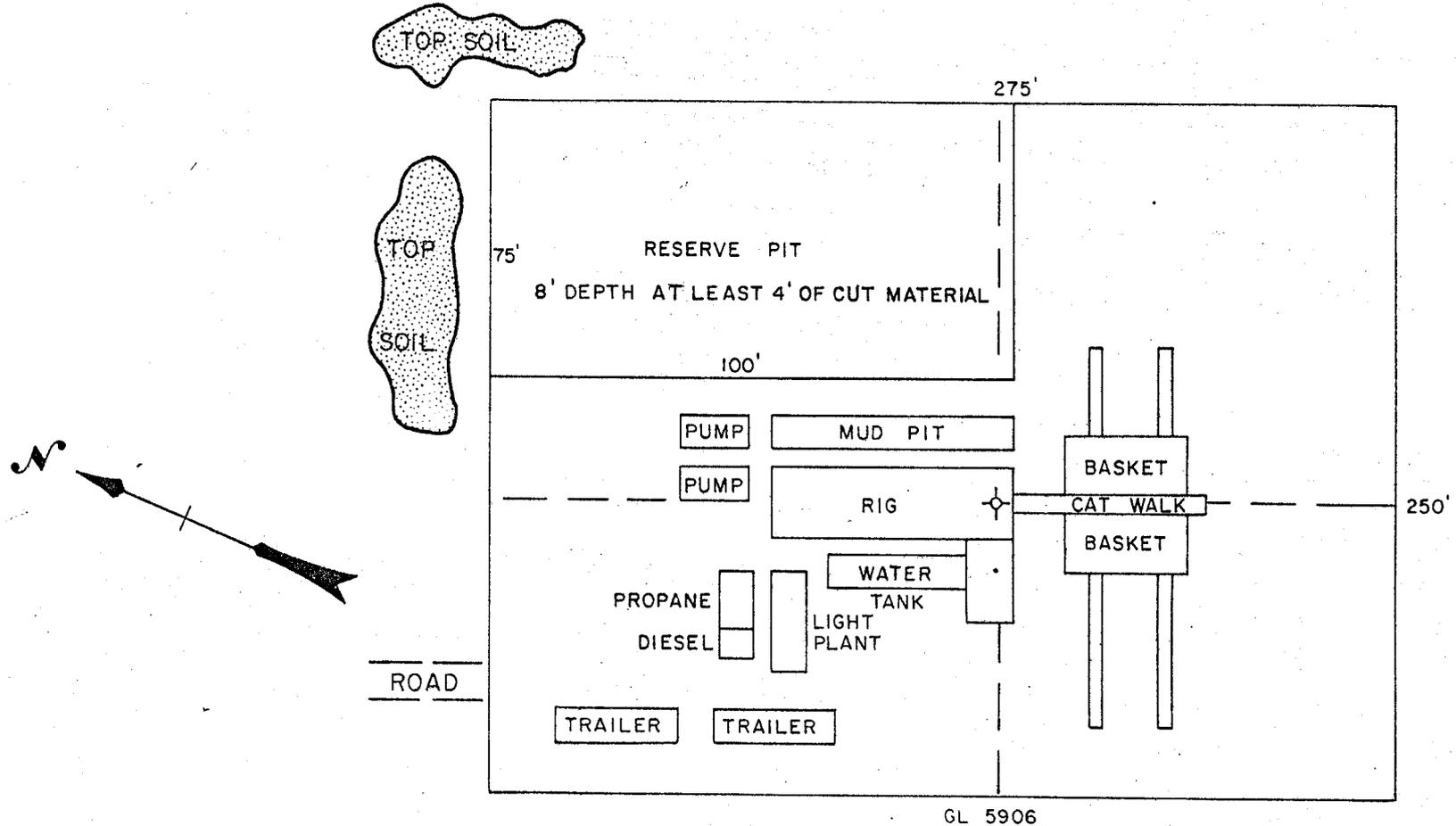
SKYLINE OIL COMPANY
MUSTANG #27-32
Sec 27, T. 36 S., R. 23 E., SLM,
San Juan County, Utah

EXHIBIT "D"



WELL SITE SKETCH
MUSTANG 27-32 IN
S.W. 1/4 NE 1/4, SEC. 27, T. 36 S., R. 23 E
SAN JUAN COUNTY, UTAH
FOR: SKYLINE OIL COMPANY
ELEVATIONS BY VERTICAL ANGLES
SCALE: 1" = 50' MAY 24, 1982

SKYLINE OIL COMPANY
MUSTANG #27-32
Sec. 27, T. 36 S., R. 23 E., SLM,
San Juan County, Utah

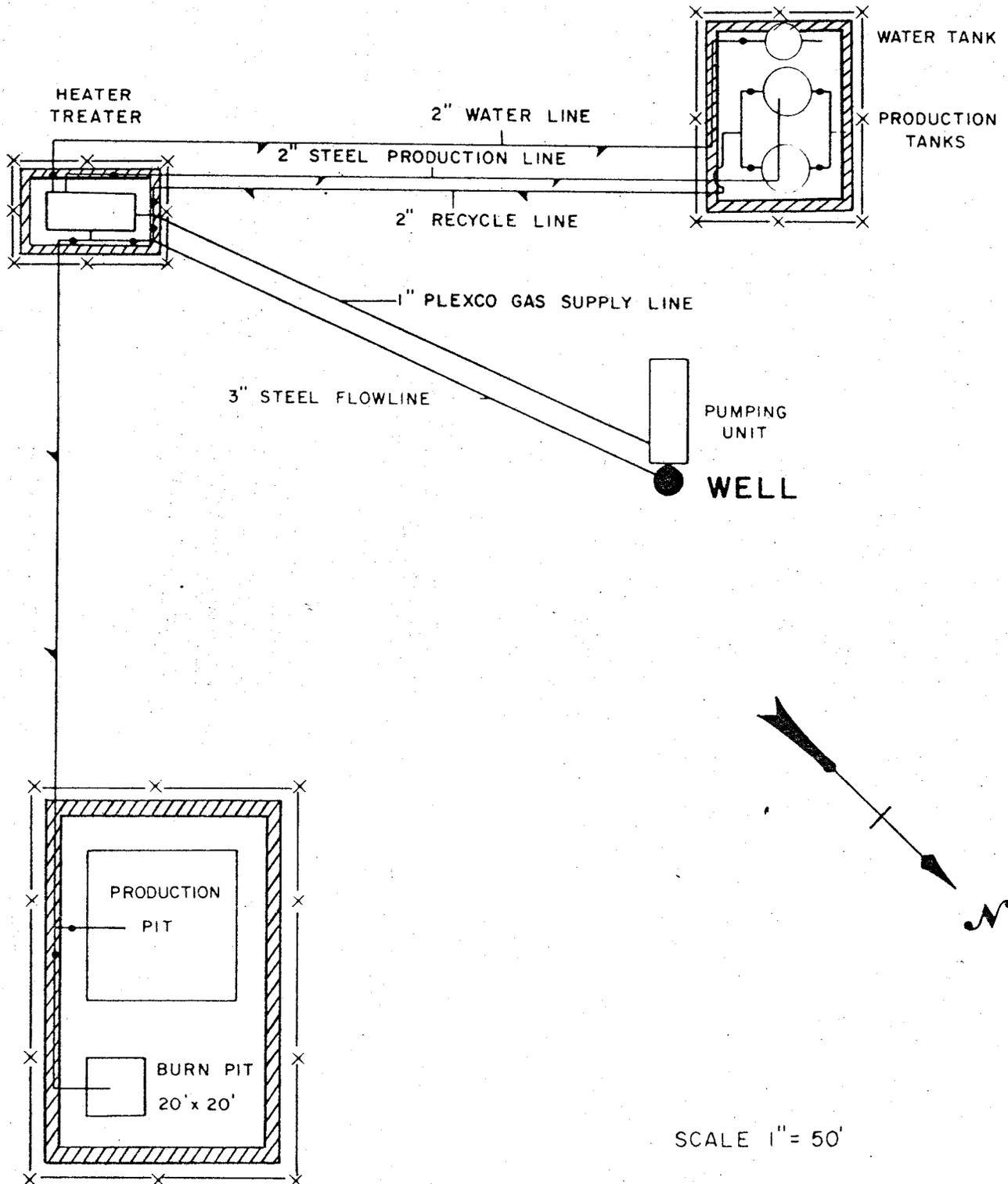


SCALE 1" = 50'

EXHIBIT "E"

EXHIBIT "F"

SKYLINE OIL COMPANY
MUSTANG UNIT #27-32 WELL
SEC. 27, T36S-R22E., SLB&M
SAN JUAN COUNTY, UTAH



SKYLINE OIL COMPANY
MUSTANG #27-32
Sec. 27, T. 36 S., R. 23 E., S1M,
San Juan County, Utah

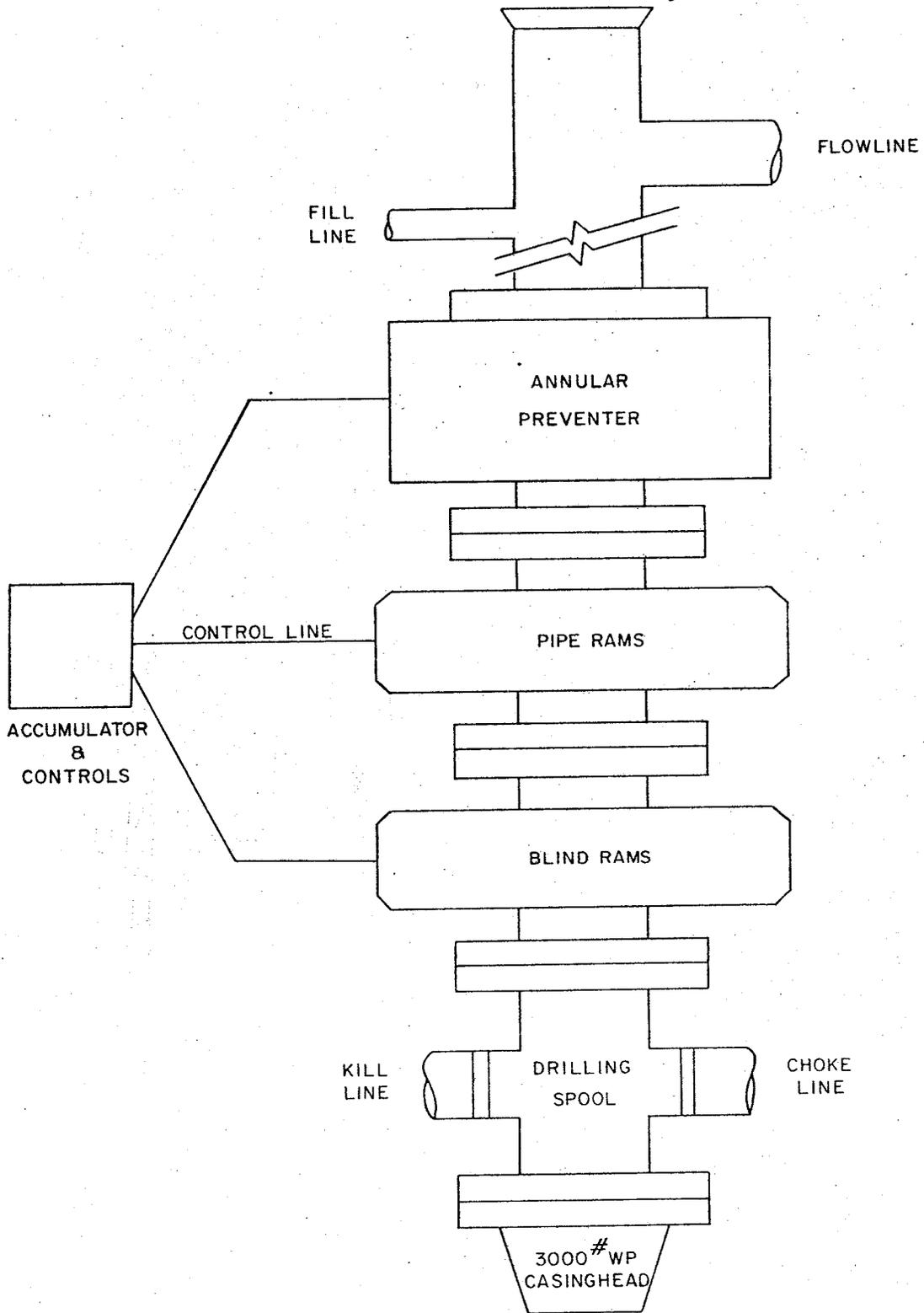


EXHIBIT "G"

BLOWOUT PREVENTER SCHEMATIC

3000 psi WORKING PRESSURE

SKYLINE OIL COMPANY
MUSTANG #27-32
Sec. 27, T. 36 S., R. 23 E., SLM,
San Juan County, Utah

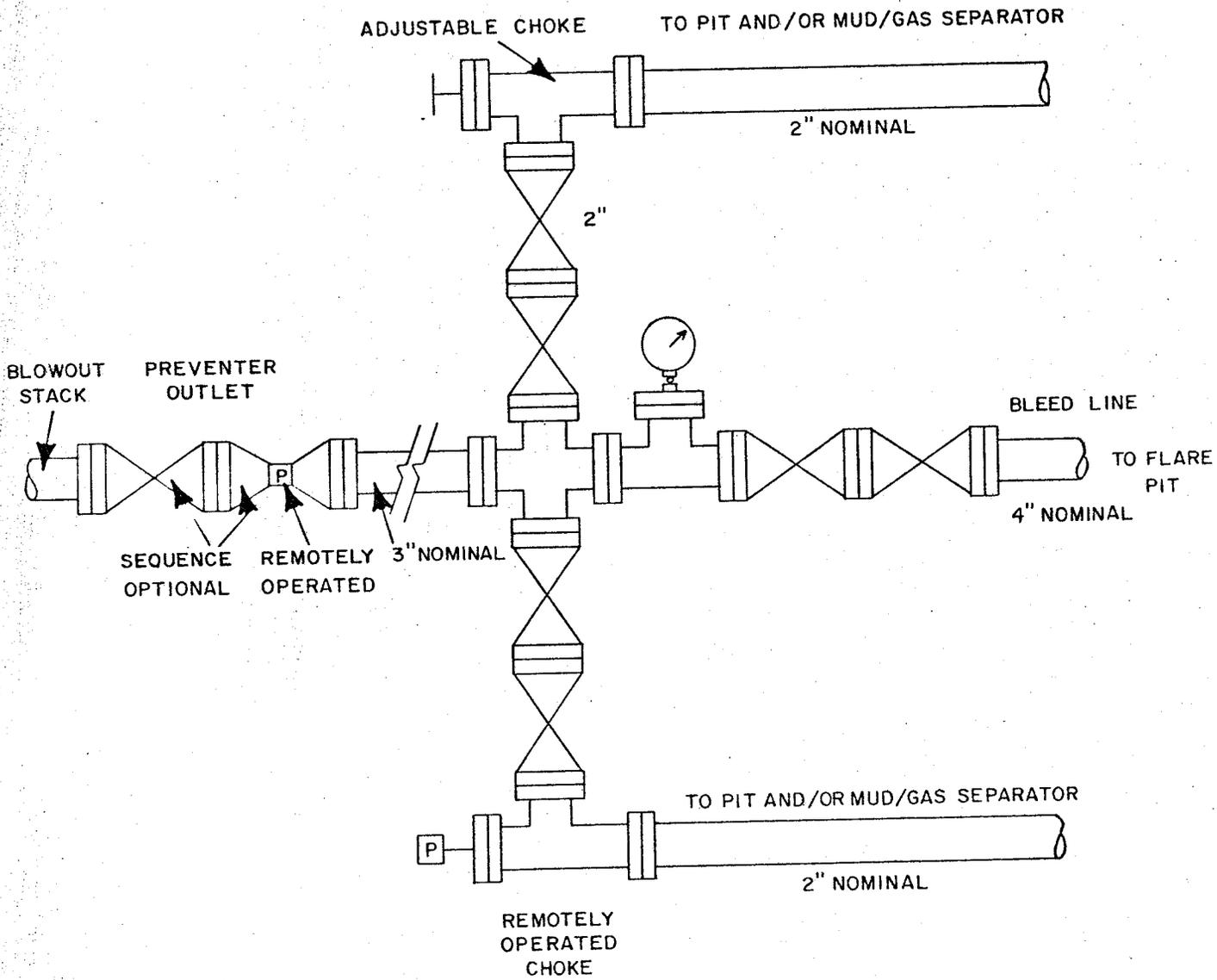
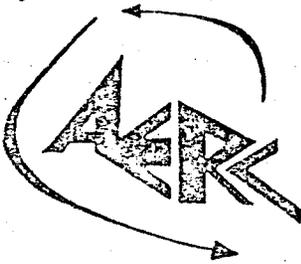


EXHIBIT "H"



ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

P.O. Box 853 - Bountiful, Utah 84010

June 4, 1984

Subject: Cultural Resource Evaluation of Proposed Well
Locations Nos. 27-21 and 27-32 in the Alkali
Ridge Locality of San Juan County, Utah

Project: Skyline Oil Company - 1984 Drilling Program

Project No.: SKOC-84-2B

Permit: Dept. of Interior 81-Ut-179

To: ✓ Mr. Clifford Selin, Skyline Oil Company,
2000 University Club Building, 136 East South
Temple, Salt Lake City, Utah 84111

Mr. Edward Scherick, Area Manager, Bureau of
Land Management, P.O. Box 1327, Monticello,
Utah 84535

Info: Mr. Rich Fike, BLM State Archeologist, Bureau
of Land Management, University Club Building,
136 East South Temple, Salt Lake City, Utah
84111

Antiquities Section, Division of State History,
300 Rio Grande, Suite 210, Salt Lake City,
Utah 84101

SKYLINE OIL COMPANY
MUSTANG #27-32
Sec. 27, T. 36 S., R. 23 E., SLM,
San Juan County, Utah

EXHIBIT "I"

Summary Report of
Inspection for Cultural Resources

BLM Report ID No. 1 4 10
 Report Acceptable Yes No
 Mitigation Acceptable Yes No
 Comments: _____

Report Title L O C A T I O N R E C O N N A I

Development Company Skyline Oil Company, Units No. 27-21 and 27-32 on Alkali Ridge

Report Date 06 4 1984 4. Antiquities Permit No. 81-Ut-179

Responsible Institution A E R C S K O C - 8 4 - 2 B County San Juan

Fieldwork Location: TWN 36S Range 23E Section(s) 22 27
 TWN Range Section(s)
 Resource Area SJ TWN Range Section(s)

PO= PONY EXPRESS, BR= BEAR RIVER, PR= PRICE RIVER, WS= WARM SPRINGS
 SC= BOOK CLIFFS, HR= HOUSE RANGE, SE= SEVIER RIVER
 HM= HENRY MOUNTAINS, BE= BEAVER RIVER, DX= DIXIE
 KA= KANAB, ES= ESCALANTE, SJ= SAN JUAN, GR= GRAND
 SR= SAN RAFAEL, DM= DIAMOND MOUNTAIN

Fill in spaces 65, 69, 81, 85, 97, 101 Only
 V= Vernal Meridian
 H= Half Township

Description of Examination Procedures:

On May 24, 1984, during the on-site inspections of the two proposed locations noted above, the archeologist, F.R. Hauck, walked a series of random transects on the locations and along the flagged access route in order to conduct a reconnaissance survey of the proposed developments. An intensive evaluation of the two well pads and the access route was impossible to conduct due to

Linear Miles Surveyed and/or 1
 Definable Acres Surveyed and/or 118 123
 Legally Undefinable Acres Surveyed 2

10. Inventory Type R
 R= Reconnaissance
 I= Intensive
 S= Statistical Sample

Description of Findings (attach appendices, if appropriate) 12. Number Sites Found: 4
 No sites= 0 131

The locations of three separate prehistoric sites were observed during the general survey. A fourth site was found to be immediately adjacent to the original location for Unit 27-32 and the well location was moved to avoid disturbing the site. The newly flagged location of that pad will be ca. 20 meters to the north of the site. That site was found to be 42Sa13710. The other three sites have not been recorded although one of them could be identical with site 42Sa14504. Additional records evaluations will need to be done to satisfy this problem. These

Actual/Potential National Register Properties Affected:

The National Register has been consulted and no registered properties will be affected by the proposed development. The Alkali Ridge National Historic Monument is situated to the north of the project area.

Literature Search, Location/Date: Monticello Area Office, 5/24 & 6/1/84

Conclusion/Recommendations:

AERC recommends that a cultural resource clearance be granted to SKYLINE OIL COMPANY based upon adherence to the stipulations noted on the reverse:

Signature F.R. Hauck

9 continued:

the dense stands of sagebrush that occupy the canyon floor. In addition, the amount of recent sedimentation that has accumulated on the canyon floor makes an adequate evaluation of sites in the area most difficult. Site 42Sa13710 is a habitation which has been covered by alluvial deposits to the extent that only recent disturbance of the surface by blading during the earlier seismic line project on the canyon floor has revealed the existence of the site. Sites that were identified during the reconnaissance were avoided during the flagging of the access route. A careful evaluation during the blading of the access route and the well pads will be necessary in order to insure that no buried cultural resources will be destroyed by the developments.

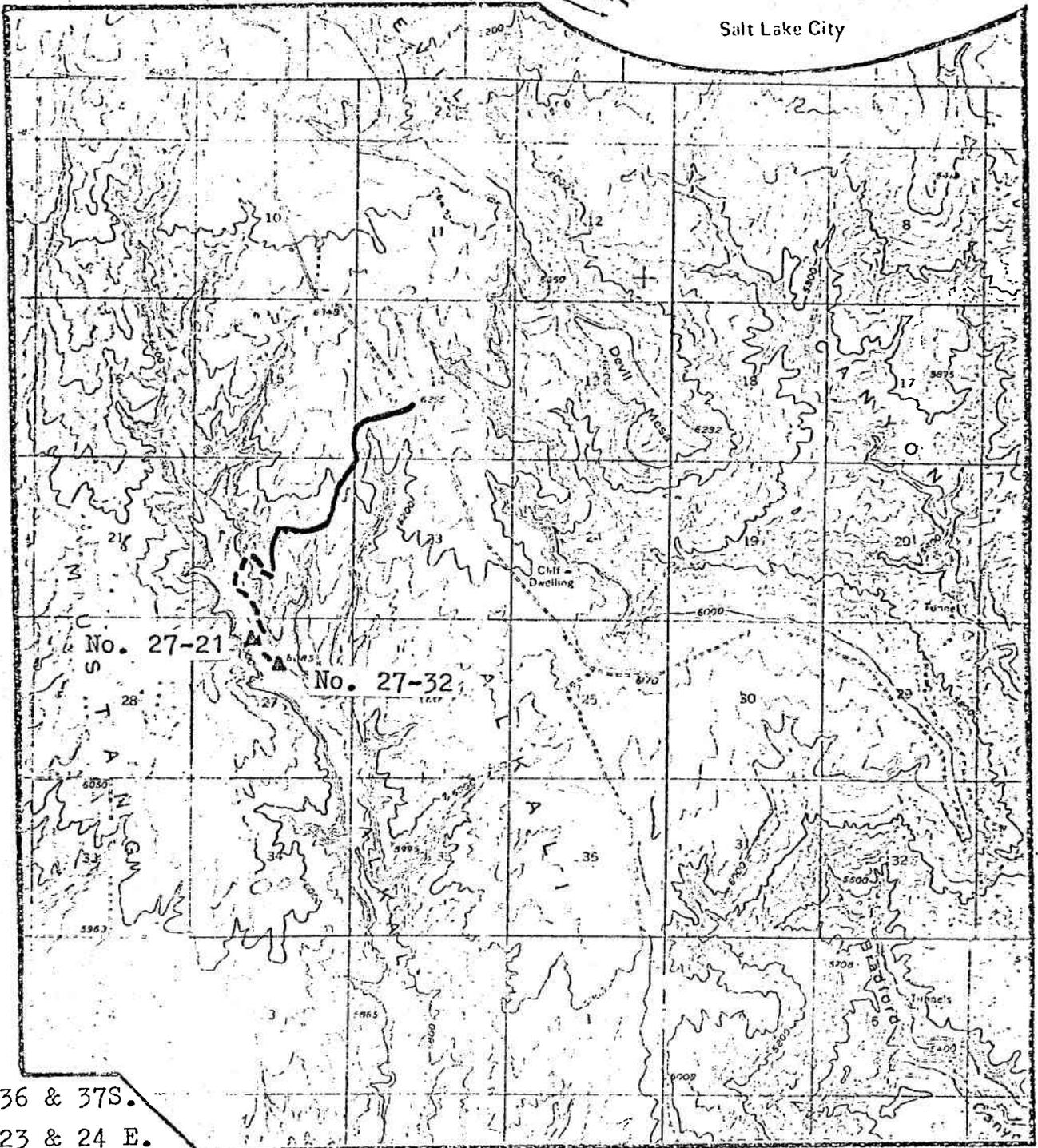
11. continued:

sites will be recorded at the time that a cultural resource monitoring of the blading operations is initiated.

16. CONTINUED:

1. All vehicular traffic, personnel movement, and construction be confined to the locations examined and to the evaluated access roads.
2. All personnel refrain from collecting artifacts or from disturbing any cultural resources in the area.
3. A qualified archeologist be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the construction area.
4. AERC further recommends that archeological monitoring be conducted during the blading of the access route and well locations in order to insure that no buried or hidden cultural materials or sites be impacted by the surface construction activities.

Salt Lake City



T. 36 & 37S.
R. 23 & 24 E.

Meridian: Salt Lake B. & M.

Quad:

Blanding, Utah

15 minute-USGS



Project: SKOC-84-2B

Series: San Juan

Date: 6-4-84

A Cultural Resource Recon-
naissance of Proposed
Units No. 27-21 and No.
27-32 in the Alkali
Canyon Locality of San
Juan County, Utah

Legend:

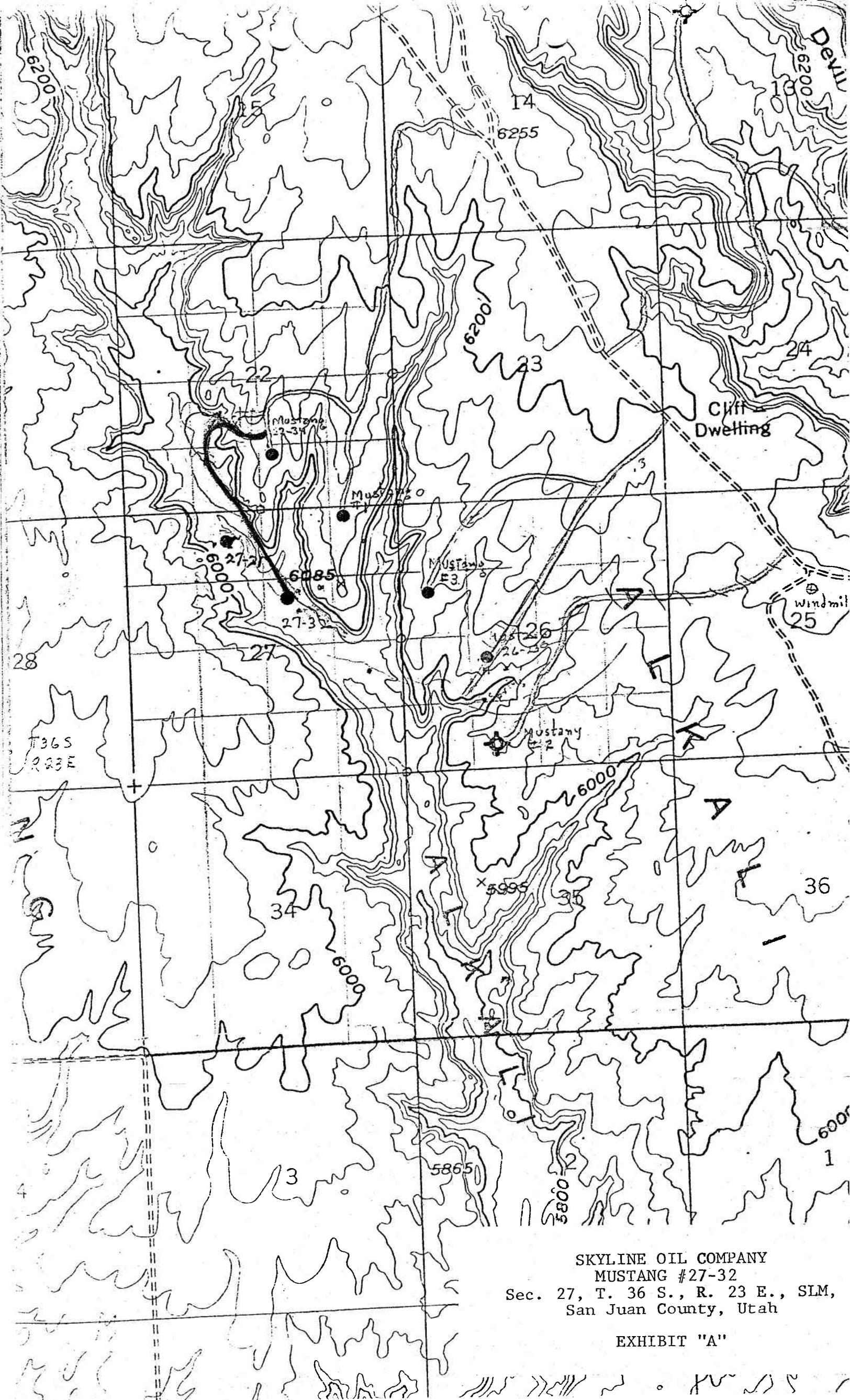
Well Location 

Access Route 

Existing Road 

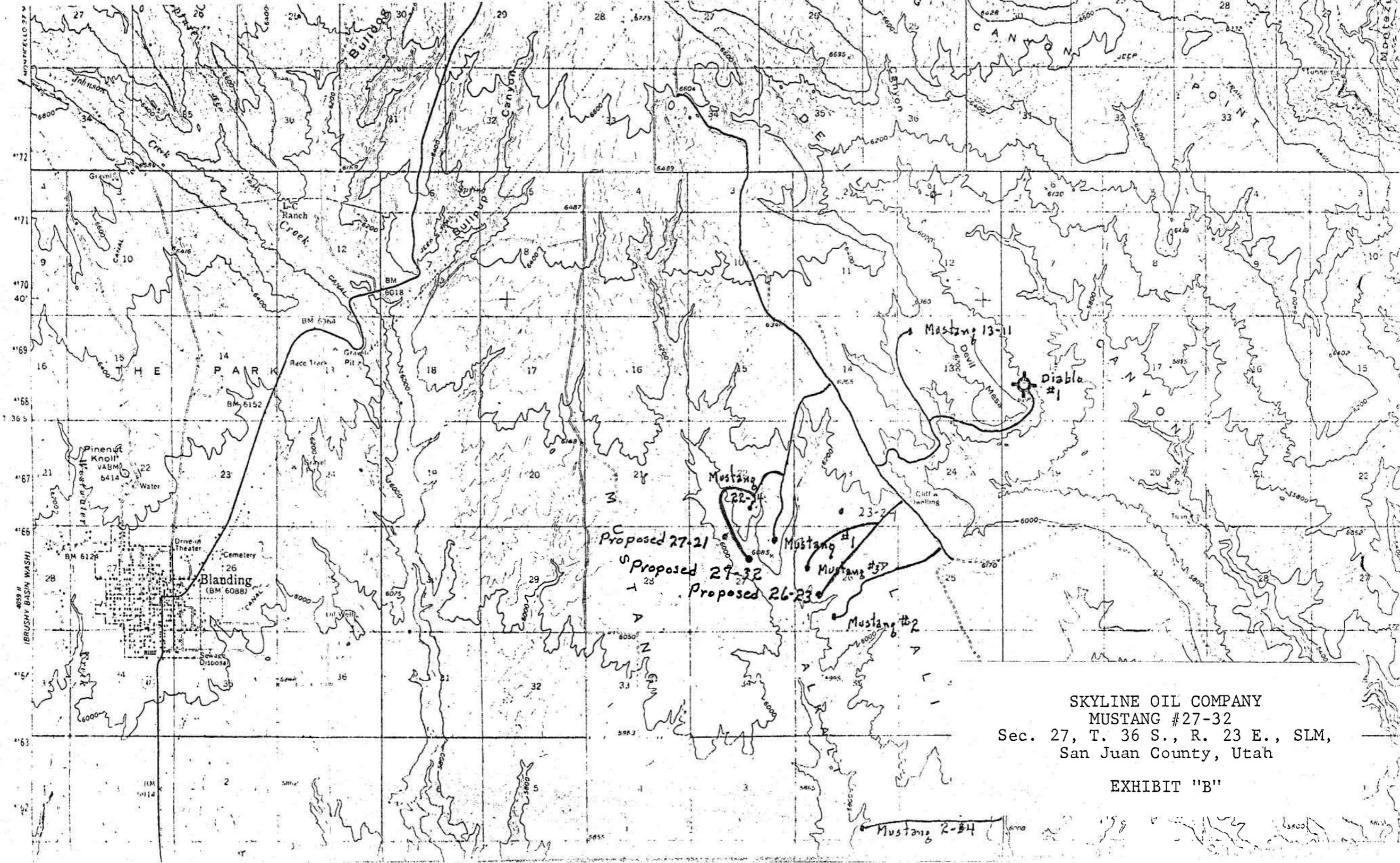


1" = 1 mile
Scale



SKYLINE OIL COMPANY
MUSTANG #27-32
Sec. 27, T. 36 S., R. 23 E., SLM,
San Juan County, Utah

EXHIBIT "A"



SKYLINE OIL COMPANY
MUSTANG #27-32
Sec. 27, T. 36 S., R. 23 E., SLM,
San Juan County, Utah

EXHIBIT "B"

Mustang 2-24

OPERATOR Skyline Oil Co. DATE 6/18/84

WELL NAME Mustang Unit # 27-32

SEC SUNE 27 T 36S R 23E COUNTY San Juan

43-037-31025
API NUMBER

Fed
TYPE OF LEASE

POSTING CHECK OFF:

<input type="checkbox"/>	INDEX	<input type="checkbox"/>	HL	<input type="checkbox"/>
<input type="checkbox"/>	NID	<input type="checkbox"/>	PI	<input type="checkbox"/>
<input type="checkbox"/>	MAP	<input type="checkbox"/>		<input type="checkbox"/>

PROCESSING COMMENTS:

Unit well - & on Plan of Development
Needs water permit

APPROVAL LETTER:

SPACING: A-3 Mustang UNIT c-3-a _____ CAUSE NO. & DATE

c-3-b c-3-c

SPECIAL LANGUAGE:

1- Water

RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER _____

UNIT Mustang

c-3-b

c-3-c

CHECK DISTANCE TO NEAREST WELL.

CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SKYLINE OIL COMPANY

3. ADDRESS OF OPERATOR
 2000 University Club Building, S.L.C., Utah 84111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface 2196' FEL, 1710' FNL, SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 27, T.36 S., R. 23 E., SLB&M
 At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 6 miles east of Blanding, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 444'

16. NO. OF ACRES IN LEASE
 320

17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 None

19. PROPOSED DEPTH
 6310'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 GL 5906'

22. APPROX. DATE WORK WILL START*
 7-8-84

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
16"	13-3/8"	48#	30'	Redi Mix
12 $\frac{1}{4}$ "	9-5/8"	36#	2100'	900 sx (Circ. to Surface)
8-3/4"	5 $\frac{1}{2}$ "	15.5#	6310'	700 _c sx.

Expected Formation Tops:

Entrada	1055'	Hermosa	4575'
Navajo	1255'	Ismay	5925'
Chinle	2005'	Desert Creek	6175'
Moenkopi	2740'	Akah	6270'
Cutler	2915'		

RECEIVED
 JUL 16 1984
 DIVISION OF OIL
 GAS & MINING

Mud program - See Attachment A
 Blowout Prevention Program - See Attachment 'A'
 Enclosure: A letter to the State of Utah asking for a Location Variance (C-3-c)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Clifford E. Schiv TITLE Senior Engineer DATE 6-14-84

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
/s/ GENE NODINE DISTRICT MANAGER 12 JUL 1984
 APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

*See Instructions On Reverse Side

FLARING OR VENTING OF
 GAS IS SUBJECT OF NTL 4-A
 DATED 1/1/80

DOG-M

June 18, 1984

Skyline Oil Company
2000 University Club Bldg.
Salt Lake City, Utah 84111

RE: Well No. Mustang Unit #27-32
SWNE Sec. 27, T. 36S, R. 23E
1710' FHL, 2196' FEL
San Juan County, Utah

Gentlemen:

Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 533-5771, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2

Skyline Oil Company

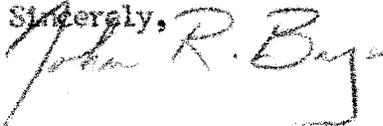
Well No. Mustang Unit #27-32

June 18, 1984

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31025.

Sincerely,



John R. Baza
Petroleum Engineer

RJF/as

cc: Branch of Fluid Minerals

Enclosures

file

BEST COPY AVAILABLE

Form 9-331
Dec. 1973

Form Approval
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE	U-46818
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME	Mustang Unit
9. WELL NO.	Mustang #27-32
10. FIELD OR WILDCAT NAME	Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Sec 27, T36S, R23E
12. COUNTY OR PARISH	San Juan
13. STATE	Utah
14. API NO.	43-037-31025
15. ELEVATIONS (SHOW DF, KDB, AND WD)	GL 3906'

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Skyline Oil Co.

3. ADDRESS OF OPERATOR
2000 Univ. Club Building, SLC Utah 84111

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
2196' FEL 1710' FNL SW NE
AT SURFACE: Sec 27, T36S, R23E
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) Change Access Road <input type="checkbox"/>	

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Amends Access Road to #27-32 to go thru and follow Rim Rock to the North along canyon wall instead of to the West as shown in APD See attached topo map with change in orange.

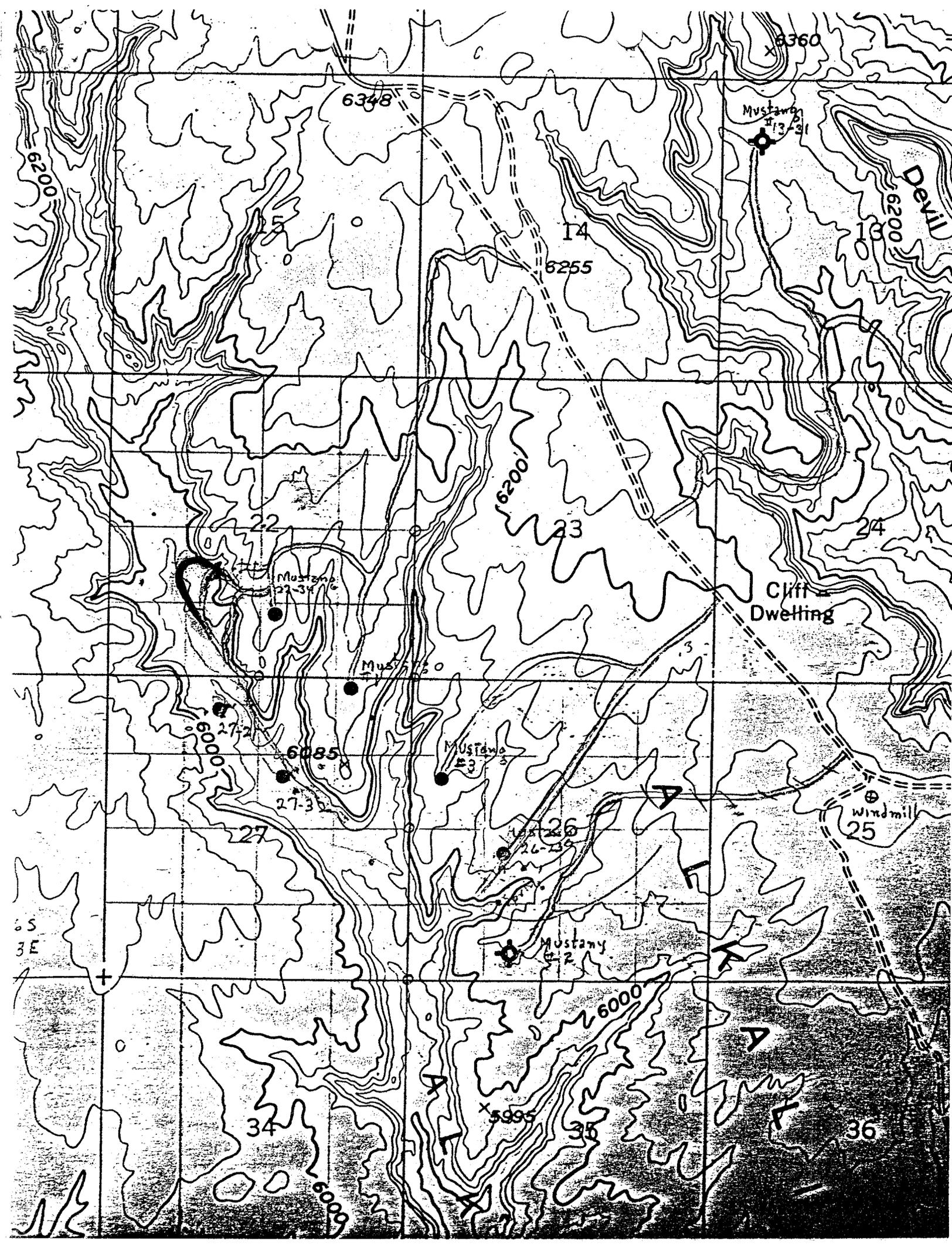
Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct
SIGNED Clifford Selvin TITLE Sr Engnr DATE July 20, 1984

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Vertical text stamp: RECEIVED... JULY 20 1984... FEDERAL BUREAU OF SURVEY...



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

<p align="center">SUNDRY NOTICES AND REPORTS ON WELLS</p> <p align="center"><small>(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</small></p>		<p>5. LEASE DESIGNATION AND SERIAL NO. U-23521</p>
<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p>		<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p>
<p>2. NAME OF OPERATOR SKYLINE OIL COMPANY</p>		<p>7. UNIT AGREEMENT NAME MUSTANG</p>
<p>3. ADDRESS OF OPERATOR 2000 University Club Building, S.L.C., Utah 84111</p>		<p>8. FARM OR LEASE NAME MUSTANG UNIT</p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2196' FEL & 1710' FNL (SW NE) Sec. 27, T. 36 S., R.23 E.</p>		<p>9. WELL NO. 27-32</p>
<p>14. PERMIT NO. API #43-037-31025</p>		<p>10. FIELD AND POOL, OR WILDCAT MUSTANG FLAT</p>
<p>15. ELEVATIONS (Show whether DP, RT, OR, etc.) OGL-5906'</p>		<p>11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec. 27, T. 36 S., R. 23 E., SLM</p>
		<p>12. COUNTY OR PARISH San Juan</p>
		<p>13. STATE Utah</p>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Skyline Oil Company respectfully requests the following changes be made to the approved Application for Permit to Drill:

- A. Change Exhibit "G" to exclude the Annular Preventer.
- B. Change Exhibit "H" to replace the remotely controlled choke with a manual choke.
- C. Change Item 5 of Attachment 'A' to exclude reference to the Annular Preventer.

RECEIVED

JUL 26 1984

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**
 DATE: 7/31/84
 BY: John P. B...

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Michael D. Anderson TITLE Staff Engineer DATE 7-25-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP DATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-46818

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

MUSTANG UNIT

9. WELL NO.

MUSTANG #27-32

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA

Sec. 27, T. 36 S., R. 23 E. SIM

12. COUNTY OR PARISH, 13. STATE

San Juan Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
SKYLINE OIL COMPANY

3. ADDRESS OF OPERATOR
2000 University Club Building, S.L.C., Utah 84111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2340' FEL 1628' FNL SW NE Sec. 27, T. 36 S., R. 23 E.

14. PERMIT NO.
API 43-037-31025

15. ELEVATIONS (Show whether DF, RT, CR, etc.)
GL 5906'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

Change Well Site

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Due to archeological site in the southeast corner of the proposed pad, it is necessary to move the pad approximately 173' northwest of present location. The new location is at 2340' FEL, 1628' FNL, SW NE Section 27, T. 36 S., R. 23 E., San Juan County, Utah.
Attached is survey plat for new location.

RECEIVED

AUG 3 1984

DIVISION OF OIL
GAS & MINING

Note:
Federal approval is required
prior to commencing operations.

ACCEPTED
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE 8/3/84
BY: John R. Bay

18. I hereby certify that the foregoing is true and correct

SIGNED Clifford Selmer

TITLE Senior Engineer

DATE 8-2-84

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

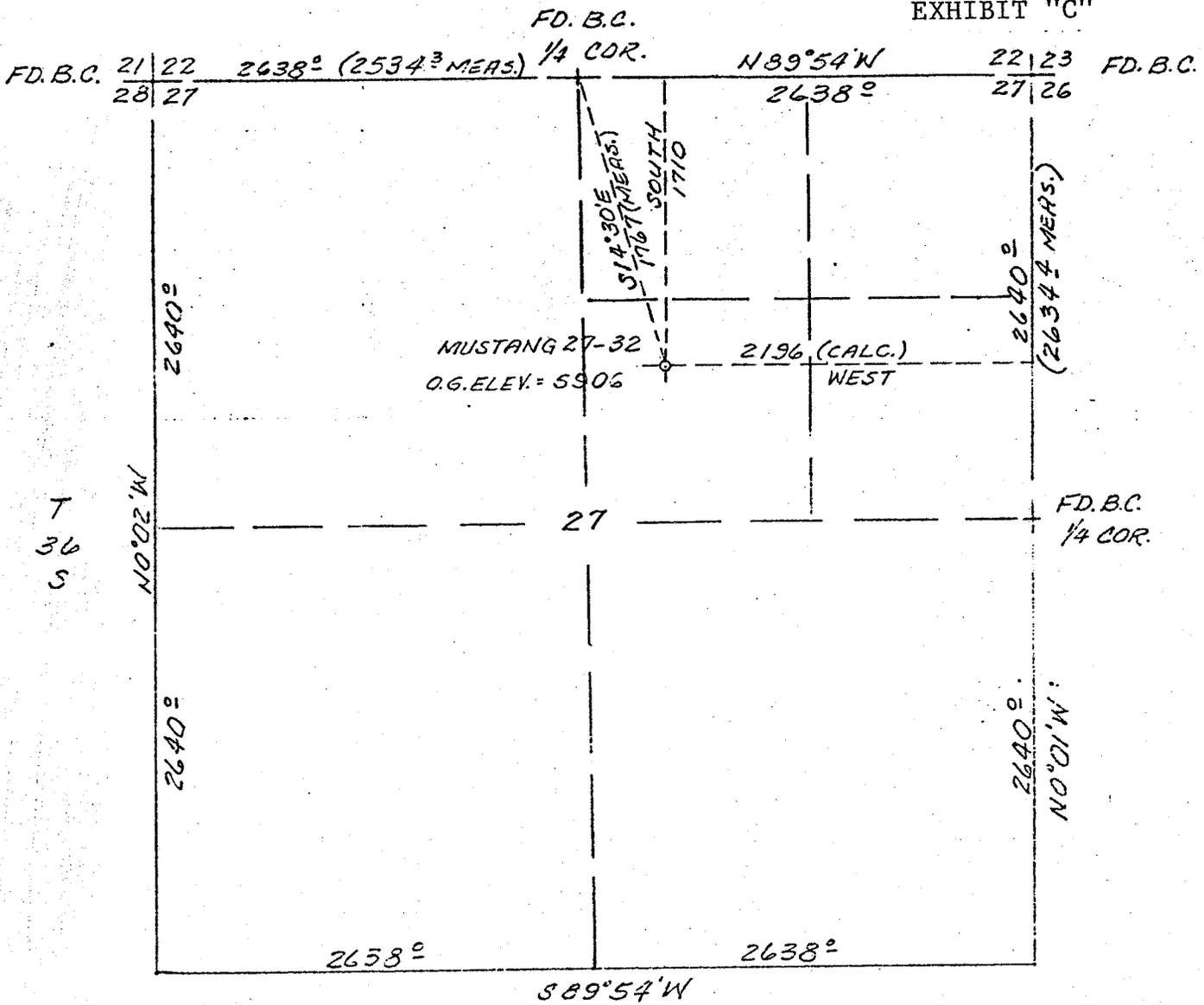
TITLE _____

DATE _____

SKYLINE OIL COMPANY
 MUSTANG #27-32
 Sec. 27, T. 36 S., R. 23 E., SLM,
 San Juan County, Utah

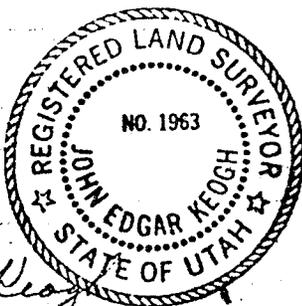
R 23 E

EXHIBIT "C"



NOTE: BOUNDARY CALLS
 ARE RECORD G.L.O. TWP. MAP

WELL LOCATION PLAT OF
 MUSTANG 27-32 IN
 S.W. 1/4 N.E. 1/4, SEC. 27, T 36 S, R 23 E, S.L.B. & M.
 SAN JUAN COUNTY, UTAH
 TRANSIT & E.D.M. SURVEY
 FOR: SKYLINE OIL COMPANY
 SCALE: 1" = 1000' MAY 24, 1984



John E. Keogh
 UTAH R.L.S. No. 1963

ELEV. BY VER. ANGLES FROM
 U.S.G.S. TOPO. QUAD. "BLANDING, UTAH"
 1957 (NW COR., SEC. 27 = 6080)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-46818 /

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

SKYLINE OIL COMPANY

3. ADDRESS OF OPERATOR

2000 University Club Building, Salt Lake City, UT 84111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

2340' FEL & 1628' FNL (SW NE) Sec. 27, T.36 S., R.23 E.

7. UNIT AGREEMENT NAME

Mustang

8. FARM OR LEASE NAME

Mustang Unit

9. WELL NO.

27-32

10. FIELD AND POOL, OR WILDCAT

Mustang Flat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 26, T. 36 S.,
R. 23 E., SLBM

14. PERMIT NO.

API #43-037-31025

15. ELEVATIONS (Show whether DP, RT, CA, etc.)

OGL-5906'

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

15. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other) Spud

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MIRU Energy Search rig #1.

Spudded well at 2:30 a.m. 8-9-84.

Drilled 12 1/2" hole to 2101'. Ran 50 jts. 9-5/8" 36# K-55 casing and set at 2101'. Cemented w/350 sx Lite followed by 300 sx Class 'H' all containing 2% CaCl₂ and 1/2#/sx Flocele. Displaced with 155 BW. Circ. cement to surface. W.O.C. Install casinghead and BOP's. Test BOP's and casing to 1500# - O.K. Drilling ahead w/8-3/4" bit.

RECEIVED

AUG 22 1984

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Michael D. Adams TITLE Staff Engineer DATE 8-20-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



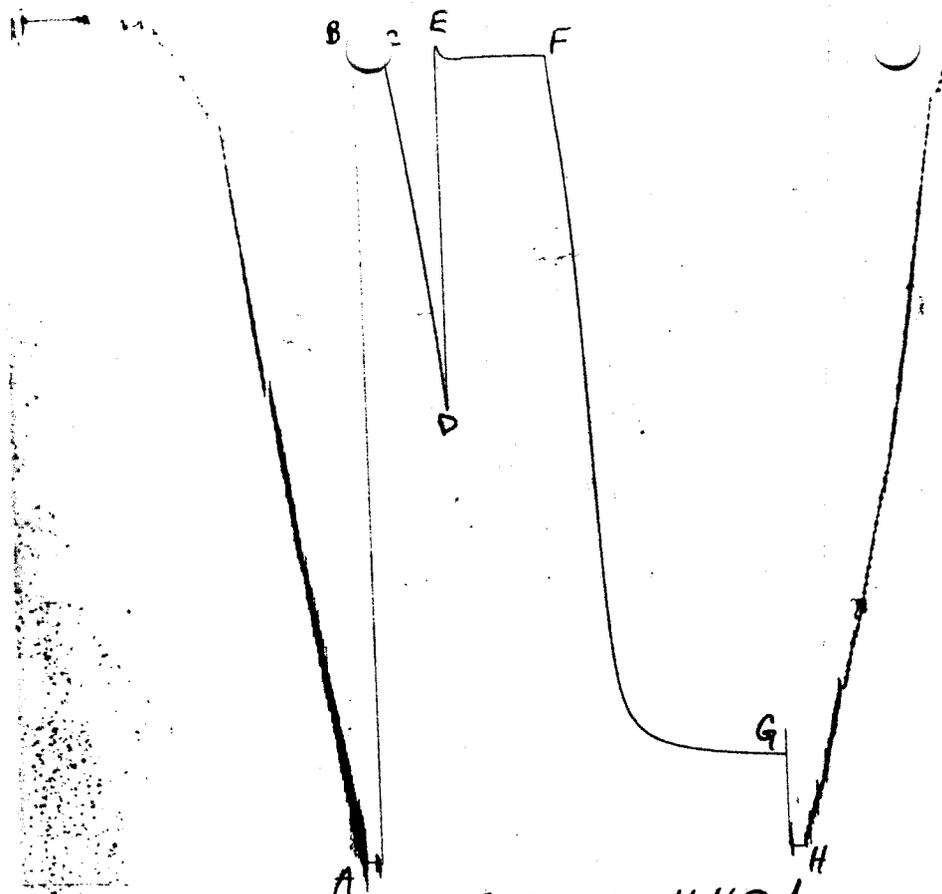
TICKET NO. 86850500
 28-AUG-84
 VERNAL

FORMATION TESTING SERVICE REPORT

MUSTANG	27-32	2	6058.1 - 6125.1	SKYLING OIL COMPANY
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION SECT. - TWP. - RANG.	27-36S-23E	FIELD AREA	MUSTANG UNIT	COUNTY
			SNR JUN	STATE
				UTR
				BC

GAUGE NO: 649 DEPTH: 6035.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2916	2918.3			
B	INITIAL FIRST FLOW	27	35.3	30.0	30.0	F
C	FINAL FIRST FLOW	71	77.7			
C	INITIAL FIRST CLOSED-IN	71	77.7	60.0	59.4	C
D	FINAL FIRST CLOSED-IN	471	1370.4			
E	INITIAL SECOND FLOW	89	88.0	120.0	120.8	F
F	FINAL SECOND FLOW	142	146.2			
F	INITIAL SECOND CLOSED-IN	142	146.2	240.0	240.6	C
G	FINAL SECOND CLOSED-IN	2590	2595.7			
H	FINAL HYDROSTATIC	2907	2914.1			



868505-4426

GAUGE NO: 4426 DEPTH: 6122.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2974	2970.9			
B	INITIAL FIRST FLOW	75	96.6			
C	FINAL FIRST FLOW	113	108.7	30.0	30.0	F
C	INITIAL FIRST CLOSED-IN	113	108.7			
D	FINAL FIRST CLOSED-IN	470	1399.7	60.0	59.4	C
E	INITIAL SECOND FLOW	122	132.9			
F	FINAL SECOND FLOW	188	180.4	120.0	120.8	F
F	INITIAL SECOND CLOSED-IN	188	180.4			
G	FINAL SECOND CLOSED-IN	2635	2639.8	240.0	240.6	C
H	FINAL HYDROSTATIC	2955	2965.3			

EQUIPMENT & HOLE DATA		TICKET NUMBER: <u>86850500</u>	
FORMATION TESTED: <u>UPPER ISMAY</u>	NET PAY (ft): <u>15.0</u>	DATE: <u>8-21-84</u>	TEST NO: <u>2</u>
GROSS TESTED FOOTAGE: <u>67.0</u>	ALL DEPTHS MEASURED FROM: <u>KB</u>	TYPE DST: <u>OPEN HOLE</u>	
CASING PERFS. (ft): _____	HOLE OR CASING SIZE (in): <u>8.750</u>	HALLIBURTON CAMP: <u>VERNAL</u>	
ELEVATION (ft): <u>5906</u>	TOTAL DEPTH (ft): <u>6125.0</u>	TESTER: <u>RIPPLE</u>	
PACKER DEPTH(S) (ft): <u>6050, 6058</u>	FINAL SURFACE CHOKE (in): <u>0.250</u>	WITNESS: <u>CROWSON</u>	
BOTTOM HOLE CHOKE (in): <u>0.750</u>	MUD WEIGHT (lb/gal): <u>9.30</u>	DRILLING CONTRACTOR: _____	
MUD VISCOSITY (sec): <u>38</u>	ESTIMATED HOLE TEMP. (°F): _____	ENERGY SEARCH #1	
ACTUAL HOLE TEMP. (°F): <u>134 @ 6122.0 ft</u>			

FLUID PROPERTIES FOR RECOVERED MUD & WATER			SAMPLER DATA	
SOURCE	RESISTIVITY	CHLORIDES	Pstg AT SURFACE:	cu.ft. OF GAS:
<u>MUD PIT</u>	<u>0.930 @ 68 °F</u>	<u>4121 ppm</u>	<u>1150</u>	<u>4.20</u>
<u>SAMPLER</u>	<u>1.270 @ 68 °F</u>	<u>3060 ppm</u>	<u>cc OF OIL: 600</u>	<u>cc OF WATER: 0</u>
_____	_____ @ _____ °F	_____ ppm	<u>cc OF MUD: 400</u>	<u>TOTAL LIQUID cc: 1000</u>
_____	_____ @ _____ °F	_____ ppm		
_____	_____ @ _____ °F	_____ ppm		
_____	_____ @ _____ °F	_____ ppm		

HYDROCARBON PROPERTIES		CUSHION DATA		
OIL GRAVITY (°API):	GAS/OIL RATIO (cu.ft. per bbl):	TYPE	AMOUNT	WEIGHT
<u>42.7 @ 60 °F</u>	<u>635</u>	_____	_____	_____
GAS GRAVITY: _____		_____	_____	_____

<p>RECOVERED:</p> <ul style="list-style-type: none"> 30' OF FREE OIL 10' OF OIL CUT MUD 304' OF GAS AND OIL CUT DRILLING MUD 	<p>MEASURED FROM TESTER VALVE</p>
--	---------------------------------------

REMARKS:

5 TO 6% POROSITY.

FINAL FIRST CLOSED-IN PRESSURE READINGS WERE INCORRECTLY READ IN FIELD.

SAMPLER GRINDOUT = 60% OIL AND 40% MUD

ELEVATION REPORTED AT GROUND LEVEL.

REPORTED SAMPLER PRESSURE EXCEEDS THE FINAL DOWN HOLE FLOWING PRESSURE AND IS THEREFORE NOT VALID.

TYPE & SIZE MEASURING DEVICE: <u>LT-20 MANIFOLD</u>					TICKET NO: 86850500
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
8-21-84					
1400					ON LOCATION
1815					PICKED UP TOOLS
1930					TRIP IN HOLE WITH TOOLS
2322	1/8BH				TOOL OPENED
2827	"	2 OZ			
2832	"	3.5 OZ			
2837	"	5 OZ			
2842	"	7.5 OZ			
2347	"	10.5 OZ			
2352	"	13 OZ			CLOSED TOOL
8-22-84					
0052	"				OPENED TOOL
0057	"	4#			
0101					OPENED THROUGH 1/4" CHOKE
0102	1/4	7#			
0107	"	7#			
0112	"	5.5#			
0117	"	5#			
0122	"	4.5#			
0125					GAS TO SURFACE
0127	"	4#			
0132	"	3.5#			
0137	"	3#			
0142	"	2#			
0147	"	2#			
0152	"	2#			
0202	"	2#			
0212	"	2#			
0222	"	2#			
0232	"	2#			
0242	"	2#			
0252	"	2#			CLOSED TOOL
0652					OPENED BY-PASS
0707					PULLED OUT OF HOLE
1040					DROPPED BAR TO REVERSE OUT
1115					DRAINED SAMPLER, BROKE DOWN

TICKET NO: 86850500
 CLOCK NO: 2786 HOUR: 24



GAUGE NO: 649
 DEPTH: 6035.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	35.3			
2	2.0	32.4	-2.8		
3	4.0	32.4	0.0		
4	6.0	32.4	0.0		
5	8.0	34.8	2.3		
6	10.0	38.2	3.5		
7	12.0	41.9	3.6		
8	14.0	45.8	3.9		
9	16.0	49.6	3.8		
10	18.0	53.7	4.1		
11	20.0	57.2	3.6		
12	22.0	60.8	3.6		
13	24.0	64.9	4.1		
14	26.0	68.9	4.0		
15	28.0	72.6	3.7		
C 16	30.0	77.7	5.1		
FIRST CLOSED-IN					
C 1	0.0	77.7			
D 2	59.4	1370.4	1292.7	19.9	0.177
SECOND FLOW					
E 1	0.0	88.0			
2	5.0	135.3	47.3		
3	10.0	146.3	10.9		
4	15.0	150.2	4.0		
5	20.0	150.2	0.0		
6	25.0	150.2	0.0		
7	30.0	141.7	-8.5		
8	35.0	146.8	5.1		
9	40.0	143.2	-3.6		
10		143.2	0.0		
			0.0		
			-2.8		
			3.5		
			3.0		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN					
F 1	0.0	146.2			
2	1.0	172.5	26.3	1.0	2.200
3	2.0	210.7	64.5	1.9	1.888
4	3.0	241.8	95.6	2.9	1.715
5	4.0	271.7	125.5	3.9	1.587
6	5.0	296.0	149.8	4.8	1.496
7	6.0	323.2	177.0	5.7	1.420
8	7.0	345.0	198.7	6.7	1.354
9	8.0	371.5	225.2	7.6	1.297
10	9.0	394.6	248.4	8.5	1.247
11	10.0	418.6	272.4	9.4	1.205
12	12.0	459.9	313.7	11.1	1.131
13	14.0	510.2	364.0	12.8	1.071
14	16.0	558.1	411.9	14.4	1.019
15	18.0	612.9	466.7	16.0	0.973
16	20.0	671.7	525.5	17.6	0.932
17	22.0	730.6	584.4	19.2	0.896
18	24.0	806.5	660.3	20.7	0.862
19	26.0	888.3	742.0	22.2	0.833
20	28.0	977.1	830.9	23.6	0.805
21	30.0	1073.5	927.3	25.0	0.780
22	35.0	1349.5	1203.2	28.4	0.725
23	40.0	1649.0	1502.7	31.6	0.678
24	45.0	1924.4	1778.1	34.6	0.639
25	50.0	2134.8	1988.5	37.6	0.603
26	55.0	2268.3	2122.1	40.3	0.573
27	60.0	2357.6	2211.3	42.9	0.545
28	70.0	2444.3	2298.1	47.8	0.499
29	80.0	2485.2	2338.9	52.3	0.460
30	90.0	2511.1	2364.9	56.3	0.427
31	100.0	2528.8	2382.6	60.1	0.399
32	110.0	2542.2	2396.0	63.6	0.375
33	120.0	2552.2	2406.0	66.8	0.353
34	135.0	2562.8	2416.6	71.2	0.326
35	150.0	2571.0	2424.8	75.2	0.302
36	165.0	2577.3	2431.1	78.8	0.282
37	180.0	2582.2	2435.9	82.0	0.264
38	195.0	2586.2	2440.0	85.0	0.249
39	210.0	2589.8	2443.6	87.8	0.235
40	225.0	2592.5	2446.3	90.3	0.223
G 41	240.6	2595.7	2449.5	92.7	0.211

TICKET NO: 86850500

CLOCK NO: 11654 HOUR: 24



GAUGE NO: 4426

DEPTH: 6122.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	96.6			
2	2.0	84.2	-12.3		
3	4.0	82.0	-2.2		
4	6.0	81.4	-0.6		
5	8.0	81.8	0.4		
6	10.0	82.7	0.9		
7	12.0	84.1	1.4		
8	14.0	85.5	1.4		
9	16.0	86.9	1.4		
10	18.0	89.3	2.4		
11	20.0	91.6	2.4		
12	22.0	94.4	2.7		
13	24.0	98.3	3.9		
14	26.0	102.0	3.7		
15	28.0	105.3	3.3		
C 16	30.0	108.7	3.4		
FIRST CLOSED-IN					
C 1	0.0	108.7			
D 2	59.4	1399.7	1291.0	19.9	0.177
SECOND FLOW					
E 1	0.0	132.9			
2	5.0	155.7	22.9		
3	10.0	172.6	16.8		
4	15.0	177.7	5.1		
5	20.0	179.5	1.9		
6	25.0	179.5	0.0		
7	30.0	176.8	-2.7		
8	35.0	176.8	0.0		
9	40.0	176.3	-0.5		
10	45.0	175.4	-0.9		
11	50.0	175.4	0.0		
12	55.0	174.4	-1.0		
13	60.0	176.3	1.9		
14	65.0	174.5	-1.8		
15	70.0	176.3	1.9		
16	75.0	174.8	-1.5		
17	80.0	176.3	1.4		
18	85.0	176.3	0.0		
19	90.0	176.3	0.0		
20	95.0	176.8	0.6		
21	100.0	176.8	0.0		
22	105.0	177.9	1.0		
23	110.0	178.2	0.4		
24	115.0	179.1	0.8		
F 25	120.8	180.4	1.3		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN					
F 1	0.0	180.4			
2	1.0	205.1	24.7	1.0	2.178
3	2.0	232.4	52.0	2.0	1.886
4	3.0	260.6	80.2	2.9	1.711
5	4.0	289.2	108.9	3.9	1.588
6	5.0	316.5	136.1	4.8	1.493
7	6.0	341.0	160.6	5.8	1.414
8	7.0	369.3	188.9	6.7	1.352
9	8.0	391.1	210.8	7.6	1.299
10	9.0	414.8	234.4	8.5	1.251
11	10.0	435.6	255.3	9.4	1.207
12	12.0	487.4	307.0	11.1	1.133
13	14.0	533.3	352.9	12.8	1.071
14	16.0	591.9	411.5	14.5	1.018
15	18.0	656.0	475.6	16.1	0.971
16	20.0	712.3	531.9	17.6	0.932
17	22.0	790.1	609.7	19.2	0.895
18	24.0	867.9	687.5	20.7	0.862
19	26.0	958.9	778.5	22.2	0.832
20	28.0	1050.8	870.5	23.6	0.805
21	30.0	1151.9	971.5	25.0	0.780
22	35.0	1422.2	1241.8	28.4	0.725
23	40.0	1711.8	1531.4	31.6	0.678
24	45.0	1976.1	1795.7	34.7	0.638
25	50.0	2178.9	1998.5	37.6	0.604
26	55.0	2307.8	2127.4	40.3	0.573
27	60.0	2391.9	2211.5	42.9	0.546
28	70.0	2480.9	2300.5	47.8	0.499
29	80.0	2528.2	2347.9	52.3	0.460
30	90.0	2553.1	2372.7	56.4	0.427
31	100.0	2571.3	2390.9	60.1	0.399
32	110.0	2584.2	2403.8	63.6	0.375
33	120.0	2594.9	2414.5	66.8	0.353
34	135.0	2606.3	2425.9	71.2	0.326
35	150.0	2615.2	2434.8	75.2	0.302
36	165.0	2621.6	2441.2	78.8	0.282
37	180.0	2626.0	2445.7	82.0	0.264
38	195.0	2630.8	2450.4	85.0	0.249
39	210.0	2634.1	2453.8	87.8	0.235
40	225.0	2637.4	2457.0	90.3	0.223
G 41	240.6	2639.8	2459.4	92.7	0.211

REMARKS:

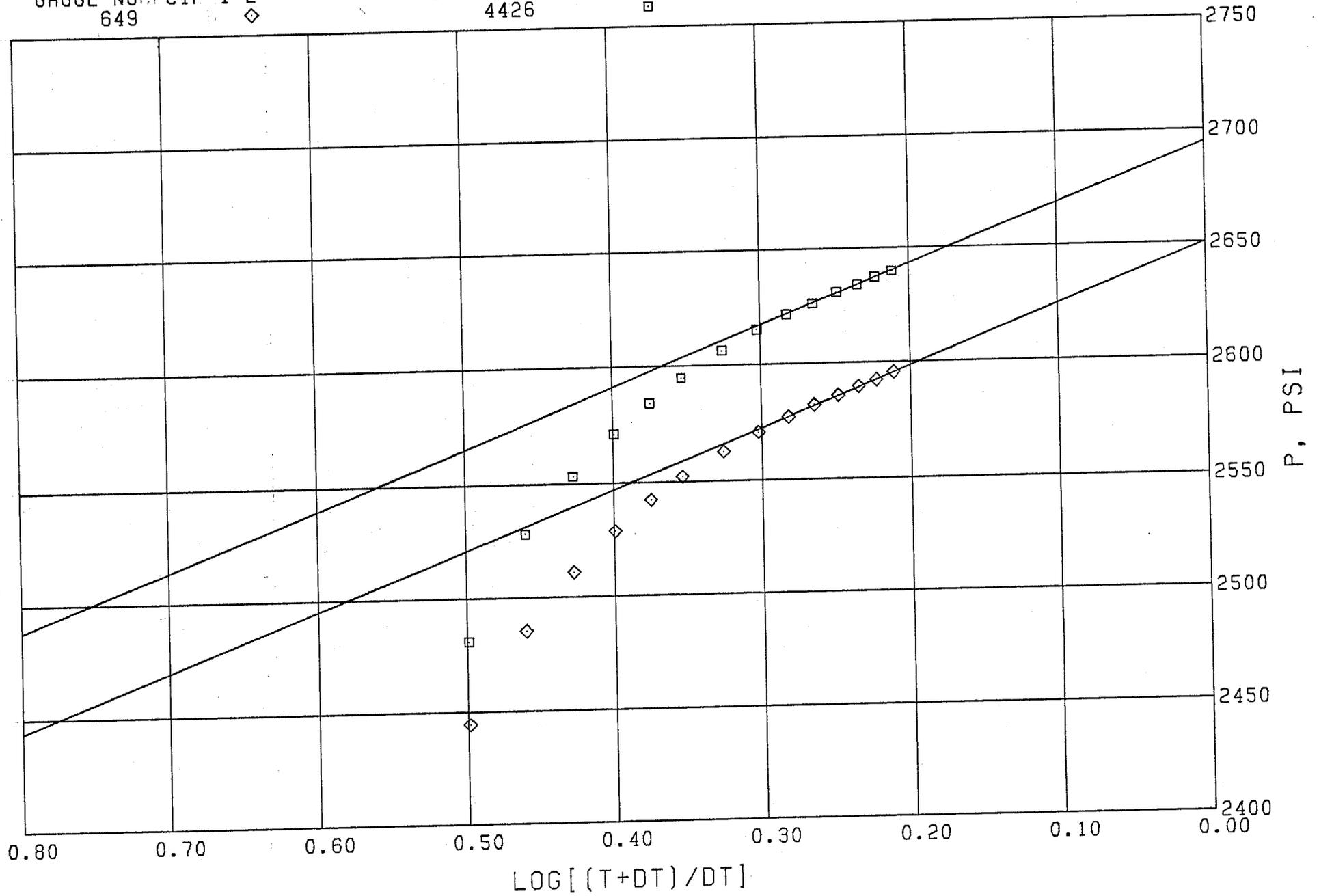
		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	5379.0	
3		DRILL COLLARS.....	6.250	2.250	602.8	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	5957.0
3		DRILL COLLARS.....	6.250	2.250	60.1	
5		CROSSOVER.....	6.063	2.500	1.2	
13		DUAL CIP SAMPLER.....	5.000	0.750	6.8	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	6033.0
80		AP RUNNING CASE.....	5.000		4.1	6035.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
70		OPEN HOLE PACKER.....	7.750	1.530	5.8	6050.0
18		DISTRIBUTOR VALVE.....	5.000	1.680	2.0	
70		OPEN HOLE PACKER.....	7.750	1.530	5.8	6058.0
20		FLUSH JOINT ANCHOR.....	5.750	2.870	24.0	
5		CROSSOVER.....	6.000	3.250	1.3	
3		DRILL COLLARS.....	6.250	2.250	30.0	
5		CROSSOVER.....	6.000	2.250	1.0	
20		FLUSH JOINT ANCHOR.....	5.750	2.870	5.0	
81		AP RUNNING CASE.....	5.750		4.1	6122.0

6125.0

TICKET NO 86850500

GAUGE NO. CIP 1 2
649 ◊

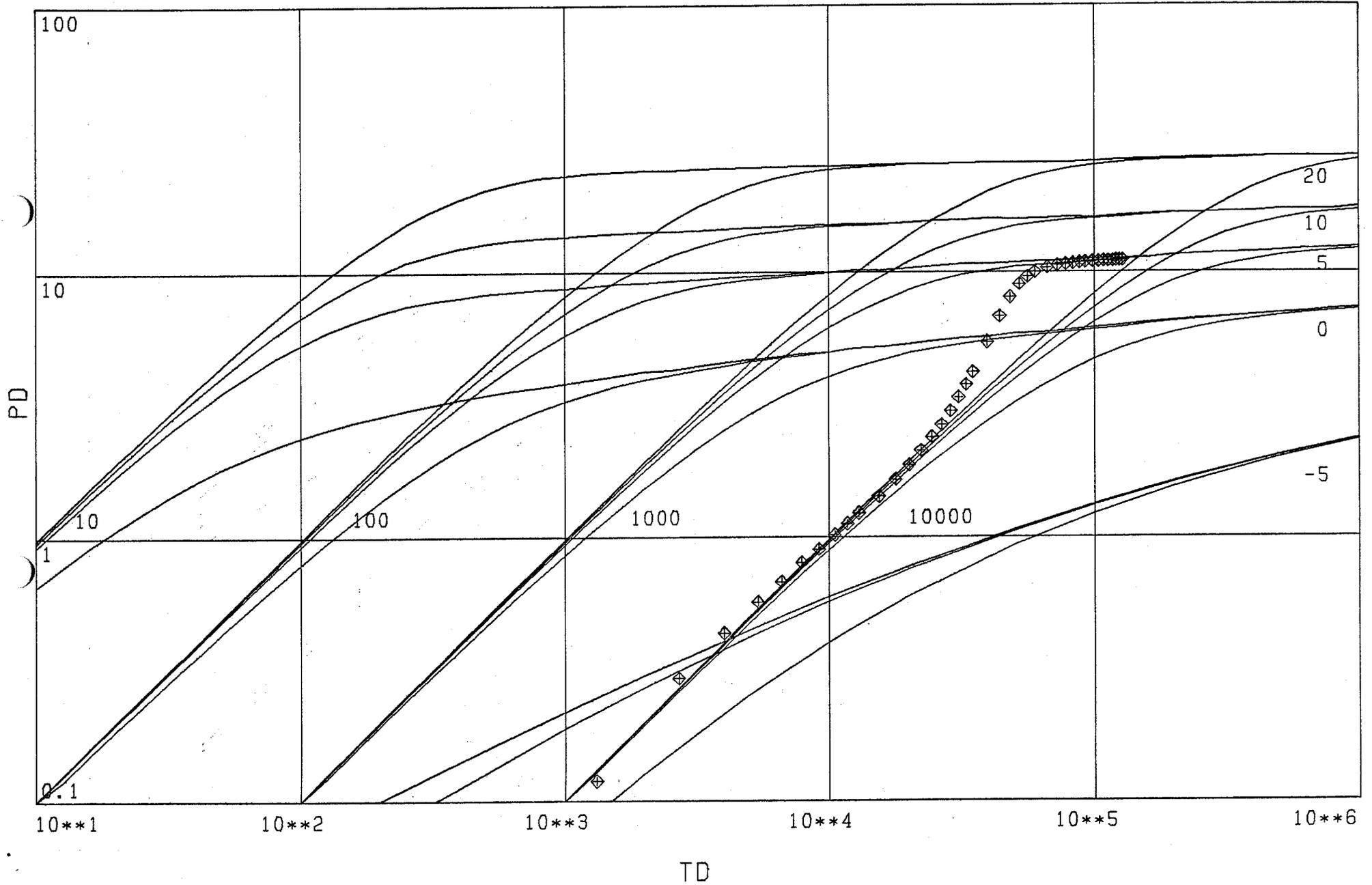
GAUGE NO. CIP 1 2
4426 ◻



GAUGE NO 649

CIP 2

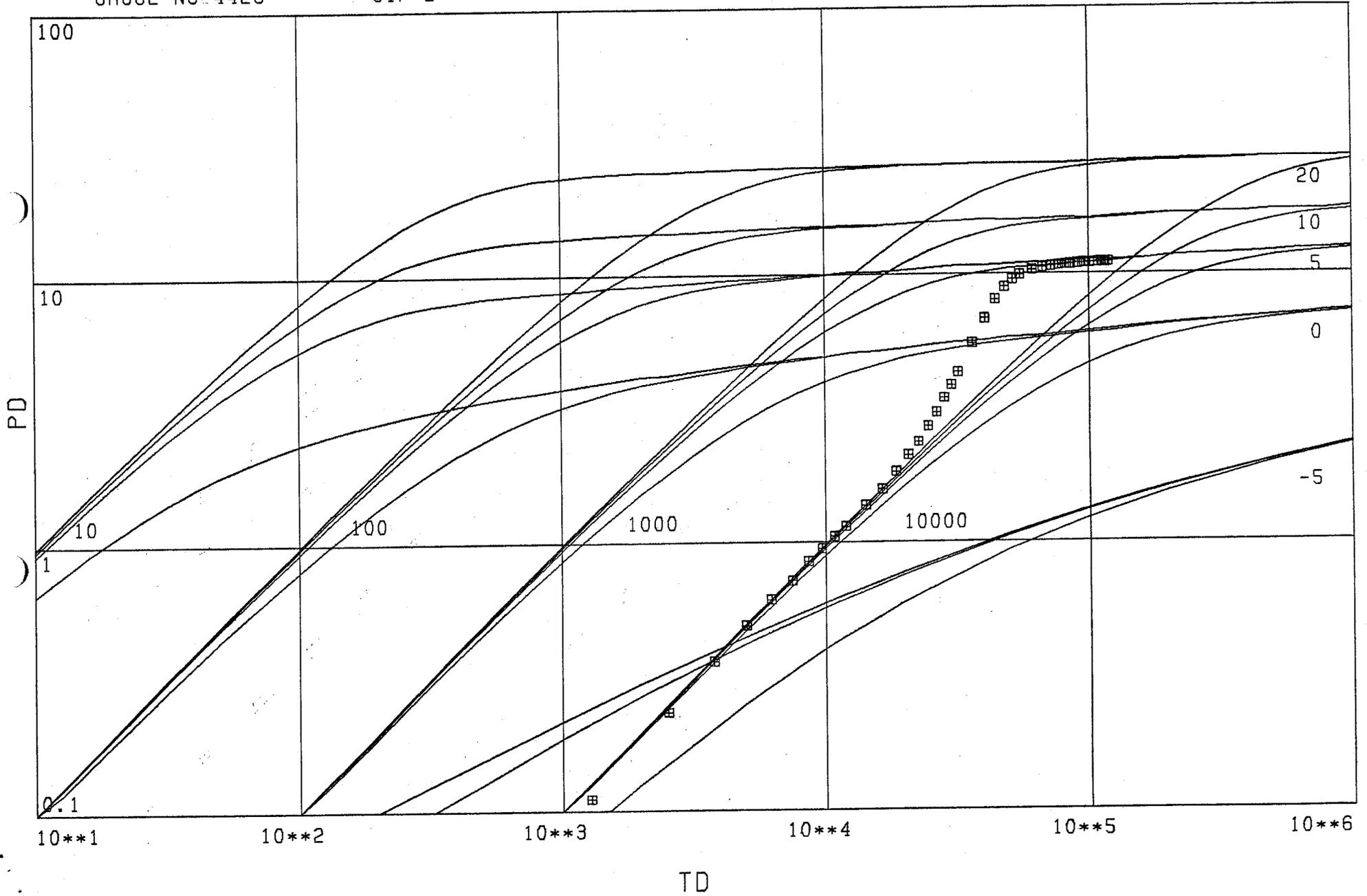
TICKET NO 86850500



GAUGE NO. 4426

CIP 2

TICKET NO 86850500



SUMMARY OF RESERVOIR PARAMETERS USING HORNER METHOD

OIL GRAVITY <u>42.7</u> @60°	WATER % SALT <u>0.0</u>
GAS GRAVITY <u>0.700</u>	FLUID GRADIENT <u>0.3520</u> psf/ft
GAS/OIL RATIO <u>635.0</u> cu.ft/bbl	FORMATION VOL FACTOR <u>1.337</u> vol/vol
TEMPERATURE <u>134.0</u> °F	FLUID PROPERTIES AT <u>2694.8</u> P _{sig}
VISCOSITY <u>0.629</u> cp	NET PAY <u>15.0</u> ft
PIPE CAPACITY FACTOR(S) <u>0.00492</u>	<u>0.01422</u> bbl/ft

GAUGE NUMBER		649	4426					
GAUGE DEPTH		6035.0	6122.0					
FLOW AND CIP PERIOD		2	2					UNITS
FINAL FLOW PRESSURE	P _f	146.2	180.4					P _{sig}
TOTAL FLOW TIME	t	150.8	150.8					min
EXTRAPOLATED PRESSURE	P*	2650.4	2694.8					P _{sig}
ONE CYCLE PRESSURE		2391.7	2435.9					P _{sig}
PRODUCTION RATE	Q	14.6	14.6					BPD
TRANSMISSIBILITY	kh/μ	12.2374	12.2262					md-ft cp
FLOW CAPACITY	kh	7.69400	7.68697					md-ft
PERMEABILITY	k	0.51293	0.51246					md
DAMAGE RATIO	DR	1.77	1.78					
POTENTIAL RATE	Q _i	25.8	25.9					BPD
RADIUS OF INVESTIGATION	r _i	40.7	40.7					ft

REMARKS:

THE FLOW RATE USED FOR CALCULATING RESERVOIR PARAMETERS WAS BASED ON TOTAL LIQUID RECOVERY. IT WAS ASSUMED THAT OIL WAS DISPLACING THE MUD THAT WAS RECOVERED.

NOTICE:

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TICKET NO. 86850400
 28-AUG-84
 VERNAL

FORMATION TESTING SERVICE REPORT

MUSTANG	27-32	1	5948.1 - 6049.1	SKYLINE OIL COMPANY
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION	27-365-23E	FIELD AREA	MUSTANG	COUNTY
SEC. - TYP. - RNG.				SAN JUAN
				STATE
				UTAH
				DR

B CE F

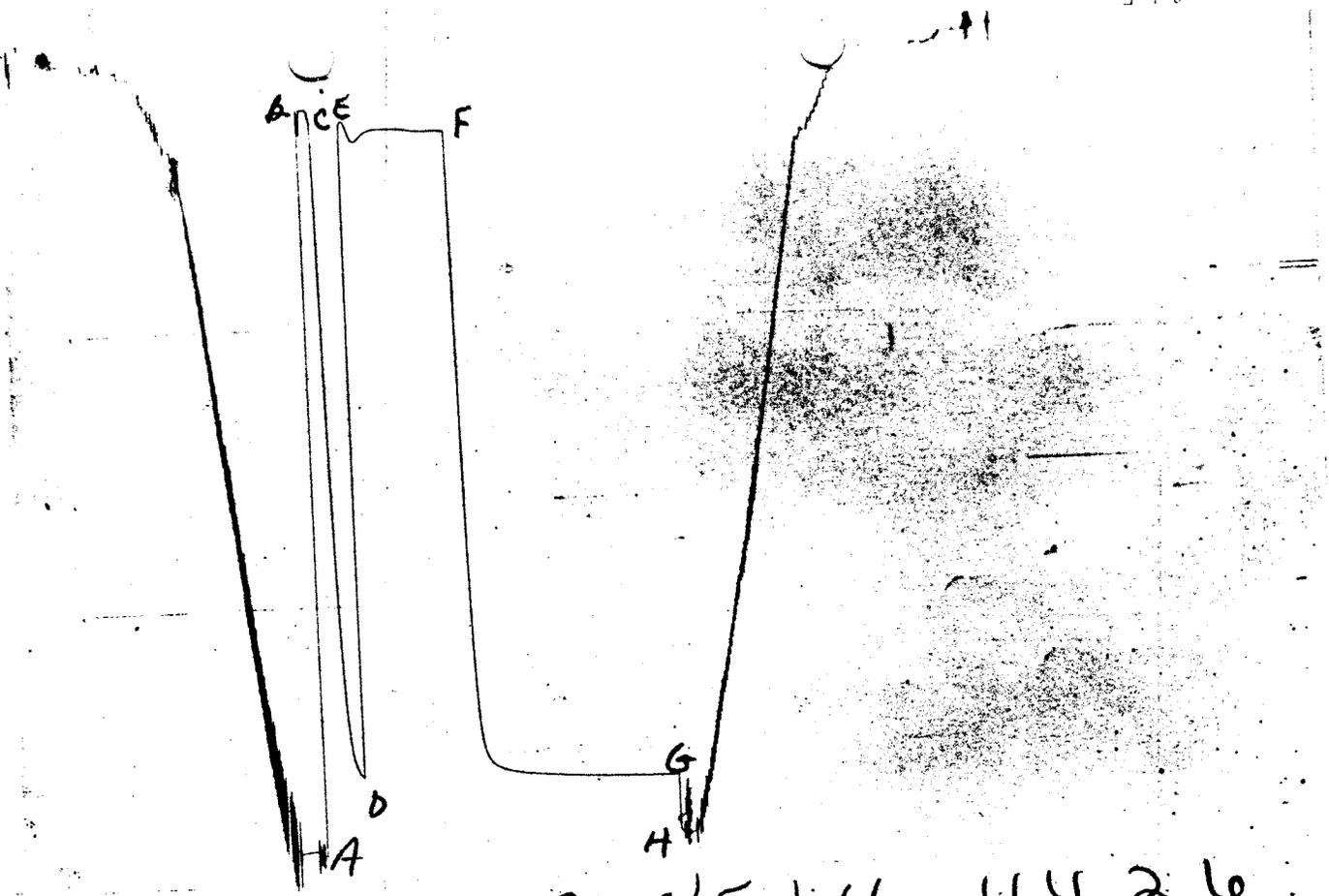
D
H

G
+ H

868504-649

GAUGE NO: 649 DEPTH: 5925.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2807	2819.7			
B	INITIAL FIRST FLOW	160	165.8	15.0	14.8	F
C	FINAL FIRST FLOW	231	247.4			
C	INITIAL FIRST CLOSED-IN	231	247.4	30.0	27.9	C
D	FINAL FIRST CLOSED-IN	2590	2590.9			
E	INITIAL SECOND FLOW	231	231.4	120.0	123.3	F
F	FINAL SECOND FLOW	284	292.7			
F	INITIAL SECOND CLOSED-IN	284	292.7	240.0	239.0	C
G	FINAL SECOND CLOSED-IN	2617	2627.5			
H	FINAL HYDROSTATIC	2798	2815.7			



868504-4426

GAUGE NO: 4426 DEPTH: 6046.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2880	2880.3			
B	INITIAL FIRST FLOW	216	214.9	15.0	14.8	F
C	FINAL FIRST FLOW	236	258.3			
C	INITIAL FIRST CLOSED-IN	236	258.3	30.0	27.9	C
D	FINAL FIRST CLOSED-IN	2616	2619.4			
E	INITIAL SECOND FLOW	254	257.5	120.0	123.3	F
F	FINAL SECOND FLOW	310	306.2			
F	INITIAL SECOND CLOSED-IN	310	306.2	240.0	239.0	C
G	FINAL SECOND CLOSED-IN	2654	2654.9			
H	FINAL HYDROSTATIC	2861	2862.5			

EQUIPMENT & HOLE DATA

FORMATION TESTED: UPPER ISMAY
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 101.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 8.750
 ELEVATION (ft): 5906
 TOTAL DEPTH (ft): 6049.0
 PACKER DEPTH(S) (ft): 5940, 5948
 FINAL SURFACE CHOKE (in): 0.500
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.00
 MUD VISCOSITY (sec): 32
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 133 @ 6045.0 ft

TICKET NUMBER: 86850400
 DATE: 8-20-84 TEST NO: 1
 TYPE DST: OPEN HOLE
 HALLIBURTON CAMP: VERNAL
 TESTER: RIPPLE
 WITNESS: CROWSON
 DRILLING CONTRACTOR: ENERGY SEARCH DRILLING #1

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>MUD PIT</u>	<u>1.010 @ 68°F</u>	<u>3515 ppm</u>
<u>REC. MUD</u>	<u>0.950 @ 68°F</u>	<u>4121 ppm</u>
_____	_____ @ _____°F	_____ ppm
_____	_____ @ _____°F	_____ ppm
_____	_____ @ _____°F	_____ ppm
_____	_____ @ _____°F	_____ ppm

SAMPLER DATA

Pstg AT SURFACE: 385
 cu.ft. OF GAS: 2.49
 cc OF OIL: 50
 cc OF WATER: 50
 cc OF MUD: 0
 TOTAL LIQUID cc: 100

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____°F
 GAS/OIL RATIO (cu.ft. per bbl): _____
 GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED:

767' OF DRILLING MUD (SLIGHTLY OIL AND GAS CUT)

MEASURED FROM TESTER VALVE

REMARKS:

8% POROSITY

REPORTED ELEVATION IS AT GROUND LEVEL

TYPE & SIZE MEASURING DEVICE: _____				LT-20 MANIFOLD _____	TICKET NO: 86850400
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
8-20-84					
0010					ON LOCATION
0240					PICKED UP TOOLS
0356					TRIPPED IN HOLE WITH TOOLS
0737	1/8				OPENED TOOL
0740	1/4				OPENED THROUGH 1/4" CHOKE
0742	"	62	60.3		
0747		57	106.04		
0749					GAS TO SURFACE
0752		92	157.58		CLOSED TOOL
0822	1/4				OPENED TOOL
0827	"	122	201.77		
0832	"	165	265.1		
0837	32/64	160	1095.8		OPENED THROUGH 32/64" CHOKE
0842	"	132	920.5		
0847		120	845.4		
0852		105	751.46		
0857		100	720.15		
0902		93	676.32		
0907		93	676.32		
0912		93	676.32		
0917		93	676.32		
0922	32/64	94	682.58		
0932		95	688.8		
0942		96	695.10		
0952		98	707.63		
1002		98	707.63		
1012		99	713.89		
1022		100	720.15		CLOSED TOOL
1422					OPENED BYPASS
1439					PULLED OUT OF HOLE
1800					DRAINED SAMPLER, DRESS DCIP,
					LOADED OUT
2100					JOB COMPLETED

TICKET NO: 86850400
 CLOCK NO: 2786 HOUR: 24



GAUGE NO: 649
 DEPTH: 5925.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B	1	0.0	165.8		
<input checked="" type="checkbox"/>	2	1.9	277.8	112.0	
	3	4.0	171.6	-106.2	
	4	6.0	183.0	11.4	
	5	8.0	189.4	6.4	
	6	10.0	197.0	7.6	
	7	12.0	209.2	12.2	
C	8	14.8	247.4	38.2	
FIRST CLOSED-IN					
C	1	0.0	247.4		
	2	1.0	725.4	478.0	1.0 1.182
	3	2.0	976.5	729.1	1.8 0.920
	4	3.0	1217.2	969.8	2.5 0.773
	5	4.0	1432.3	1184.9	3.2 0.668
	6	5.0	1626.7	1379.3	3.8 0.596
	7	6.0	1804.7	1557.3	4.3 0.540
	8	7.0	1933.6	1686.2	4.8 0.491
	9	8.0	2065.3	1817.9	5.2 0.454
	10	9.0	2164.2	1916.8	5.6 0.422
	11	10.0	2243.3	1995.9	6.0 0.394
	12	12.0	2366.7	2119.3	6.6 0.349
	13	14.0	2441.6	2194.2	7.2 0.313
	14	16.0	2496.0	2248.6	7.7 0.284
	15	18.0	2531.0	2283.5	8.1 0.261
	16	20.0	2552.5	2305.1	8.5 0.241
	17	22.0	2566.6	2319.2	8.8 0.224
	18	24.0	2578.3	2330.9	9.2 0.209
	19	25.9	2586.1	2338.7	9.4 0.196
D	20	27.9	2590.9	2343.5	9.7 0.185
SECOND FLOW					
E	1	0.0	231.4		
	2	5.0	231.3	-0.1	
	3	10.0	259.0	27.6	
	4	15.0	302.9	43.9	
<input checked="" type="checkbox"/>	5	20.0	319.8	16.9	
	6	25.0	297.3	-22.5	
	7	30.0	280.4	-16.9	
	8	35.0	273.9	-6.5	
	9	40.0	270.4	-3.5	
	10	45.0	269.0	-1.4	
	11	50.0	269.5	0.4	
	12	55.0	271.1	1.7	
	13	60.0	271.7	0.5	
	14	65.0	272.3	0.6	
	15	70.0	273.8	1.5	

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
	16	75.0	276.7	2.9	
	17	80.0	279.9	3.2	
	18	85.0	283.1	3.1	
	19	90.0	285.0	2.0	
	20	95.0	286.7	1.7	
	21	100.0	286.7	0.0	
	22	105.0	286.7	0.0	
	23	110.0	285.7	-1.0	
	24	115.0	285.7	0.0	
	25	120.0	289.8	4.1	
F	26	123.3	292.7	2.8	
SECOND CLOSED-IN					
F	1	0.0	292.7		
	2	1.0	673.9	381.2	1.0 2.143
	3	2.0	961.8	669.1	2.0 1.845
	4	3.0	1269.0	976.3	3.0 1.668
	5	4.0	1559.6	1266.9	3.9 1.547
	6	5.0	1751.0	1458.3	4.8 1.459
	7	6.0	1928.8	1636.2	5.7 1.380
	8	7.0	2079.8	1787.1	6.7 1.317
	9	8.0	2193.6	1900.9	7.6 1.262
	10	9.0	2268.9	1976.2	8.5 1.212
	11	10.0	2342.9	2050.2	9.4 1.169
	12	12.0	2432.1	2139.4	11.1 1.096
	13	14.0	2483.4	2190.7	12.7 1.035
	14	16.0	2512.9	2220.3	14.4 0.983
	15	18.0	2533.1	2240.4	15.9 0.938
	16	20.0	2546.4	2253.8	17.5 0.897
	17	22.0	2556.1	2263.5	19.0 0.861
	18	24.0	2562.8	2270.1	20.4 0.830
	19	26.0	2567.8	2275.2	21.9 0.801
	20	28.0	2571.8	2279.1	23.3 0.773
	21	30.0	2575.4	2282.7	24.7 0.748
	22	35.0	2582.1	2289.4	27.9 0.694
	23	40.0	2586.8	2294.2	31.0 0.649
	24	45.0	2591.8	2299.1	34.0 0.609
	25	50.0	2594.2	2301.5	36.7 0.575
	26	55.0	2596.5	2303.9	39.3 0.545
	27	60.0	2598.3	2305.7	41.8 0.519
	28	70.0	2603.0	2310.4	46.4 0.473
	29	80.0	2606.0	2313.3	50.7 0.435
	30	90.0	2608.9	2316.2	54.5 0.404
	31	100.1	2611.6	2318.9	58.0 0.377
	32	110.0	2613.6	2321.0	61.2 0.353
	33	120.0	2615.7	2323.1	64.2 0.333
	34	135.0	2617.5	2324.9	68.3 0.306
	35	150.0	2619.9	2327.3	71.9 0.283
	36	165.0	2621.9	2329.3	75.2 0.264
	37	180.0	2623.8	2331.2	78.1 0.247
	38	195.0	2625.3	2332.6	80.8 0.232

LEGEND:
 CHOKE CHANGE

REMARKS:

TICKET NO: 86850400
 CLOCK NO: 11654 HOUR: 24



GAUGE NO: 4426
 DEPTH: 6046.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B	1	0.0	214.9		
<input checked="" type="checkbox"/>	2	1.9	299.8	84.8	
	3	4.0	214.1	-85.7	
	4	6.0	211.9	-2.2	
	5	8.0	211.9	0.0	
	6	10.0	213.7	1.8	
	7	12.0	220.6	6.9	
C	8	14.8	258.3	37.8	
FIRST CLOSED-IN					
C	1	0.0	258.3		
	2	1.0	740.8	482.5	1.0 1.192
	3	2.0	1046.7	788.4	1.8 0.918
	4	3.0	1282.2	1023.9	2.5 0.775
	5	4.0	1473.4	1215.1	3.2 0.669
	6	5.0	1651.1	1392.7	3.7 0.598
	7	6.0	1795.3	1537.0	4.3 0.541
	8	7.0	1955.2	1696.9	4.8 0.492
	9	8.0	2072.9	1814.5	5.2 0.453
	10	9.0	2165.0	1906.6	5.6 0.421
	11	10.0	2252.5	1994.2	6.0 0.394
	12	12.0	2384.7	2126.4	6.6 0.349
	13	14.0	2465.1	2206.7	7.2 0.313
	14	16.0	2521.6	2263.3	7.7 0.284
	15	18.0	2557.9	2299.6	8.1 0.260
	16	20.0	2578.5	2320.2	8.5 0.241
	17	22.0	2594.4	2336.0	8.8 0.224
	18	24.0	2606.5	2348.2	9.2 0.209
	19	26.0	2614.9	2356.6	9.4 0.196
D	20	27.9	2619.4	2361.1	9.7 0.185
SECOND FLOW					
E	1	0.0	257.5		
	2	5.0	257.6	0.1	
	3	10.0	265.1	7.5	
	4	15.0	306.6	41.5	
<input checked="" type="checkbox"/>	5	20.0	331.5	24.9	
	6	25.0	322.9	-8.6	
	7	30.0	308.3	-14.6	
	8	35.0	298.3	-10.0	
	9	40.0	292.5	-5.8	
	10	45.0	290.5	-2.0	
	11	50.0	290.0	-0.5	
	12	55.0	290.8	0.8	
	13	60.0	290.8	0.0	
	14	65.0	291.2	0.4	
	15	70.0	292.1	0.9	

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
	16	75.0	293.9	1.8	
	17	80.0	296.1	2.2	
	18	85.0	298.9	2.8	
	19	90.0	301.0	2.1	
	20	95.0	302.4	1.4	
	21	100.0	303.1	0.8	
	22	105.0	303.1	0.0	
	23	110.0	302.5	-0.7	
	24	115.0	302.5	0.0	
	25	120.0	304.8	2.4	
F	26	123.3	306.2	1.4	
SECOND CLOSED-IN					
F	1	0.0	306.2		
	2	1.0	743.9	437.7	1.0 2.149
	3	2.0	1089.5	783.3	1.9 1.851
	4	3.0	1356.5	1050.2	3.0 1.670
	5	4.0	1612.9	1306.7	3.9 1.550
	6	5.0	1794.8	1488.5	4.8 1.457
	7	6.0	1961.5	1655.3	5.7 1.382
	8	7.0	2086.8	1780.5	6.6 1.318
	9	8.0	2202.8	1896.5	7.6 1.261
	10	9.0	2283.1	1976.8	8.4 1.213
	11	10.0	2356.6	2050.3	9.3 1.171
	12	12.0	2440.7	2134.4	11.1 1.096
	13	14.0	2497.0	2190.7	12.7 1.036
	14	16.0	2529.1	2222.9	14.3 0.984
	15	18.0	2549.4	2243.2	15.9 0.939
	16	20.0	2565.1	2258.8	17.4 0.898
	17	22.0	2575.3	2269.0	19.0 0.862
	18	24.0	2583.5	2277.2	20.4 0.830
	19	26.0	2590.2	2283.9	21.9 0.800
	20	28.0	2594.7	2288.5	23.3 0.773
	21	30.0	2598.9	2292.6	24.6 0.749
	22	35.0	2605.9	2299.7	27.9 0.694
	23	40.0	2612.0	2305.7	31.0 0.648
	24	45.0	2616.7	2310.5	33.9 0.610
	25	50.0	2620.7	2314.4	36.7 0.575
	26	55.0	2622.9	2316.7	39.3 0.546
	27	60.0	2625.5	2319.2	41.8 0.519
	28	70.0	2629.4	2323.2	46.4 0.473
	29	80.0	2633.0	2326.8	50.7 0.435
	30	90.0	2635.3	2329.0	54.5 0.404
	31	100.0	2637.6	2331.4	58.0 0.377
	32	110.0	2639.9	2333.7	61.2 0.353
	33	120.0	2641.5	2335.3	64.2 0.333
	34	135.0	2644.5	2338.3	68.3 0.306
	35	150.0	2646.6	2340.4	71.9 0.283
	36	165.0	2648.6	2342.3	75.2 0.264
	37	180.0	2650.0	2343.8	78.1 0.247
	38	195.0	2651.6	2345.4	80.8 0.232

LEGEND:
 CHOKE CHANGE
 REMARKS:

TICKET NO: 86850400
 CLOCK NO: 11654 HOUR: 24



GAUGE NO: 4426
 DEPTH: 6046.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
	39	210.0	2652.3	2346.0	83.3 0.219
	40	225.0	2653.6	2347.3	85.6 0.208
G	41	239.0	2654.9	2348.6	87.5 0.198

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$

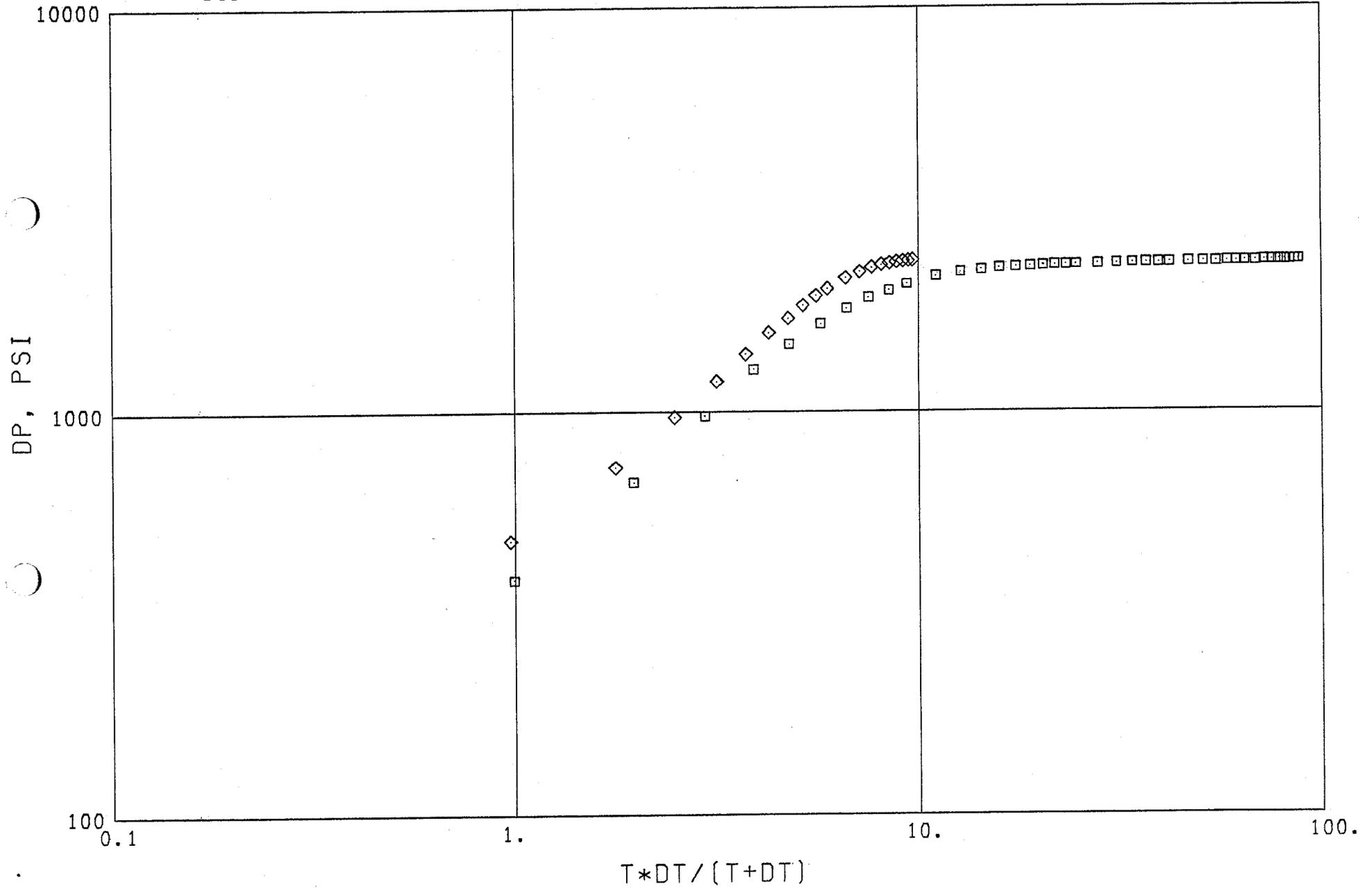
LEGEND:
 CHOKE CHANGE
 REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	5289.0	
3		DRILL COLLARS.....	6.250	2.250	571.3	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	5849.0
3		DRILL COLLARS.....	6.250	2.250	61.4	
5		CROSSOVER.....	6.063	2.500	1.2	
13		DUAL CIP SAMPLER.....	5.000	0.750	6.8	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5923.0
80		AP RUNNING CASE.....	5.000	3.060	4.1	5925.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
70		OPEN HOLE PACKER.....	7.750	1.530	5.8	5940.0
18		DISTRIBUTOR VALVE.....	5.000	1.680	2.0	
70		OPEN HOLE PACKER.....	7.750	1.530	5.8	5948.0
20		FLUSH JOINT ANCHOR.....	5.750	2.870	30.0	
5		CROSSOVER.....	6.000	3.250	1.3	
3		DRILL COLLARS.....	6.250	2.250	60.1	
5		CROSSOVER.....	6.000	2.250	1.0	
20		FLUSH JOINT ANCHOR.....	5.750	2.870	3.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.1	6046.0
TOTAL DEPTH					6049.0	

EQUIPMENT DATA

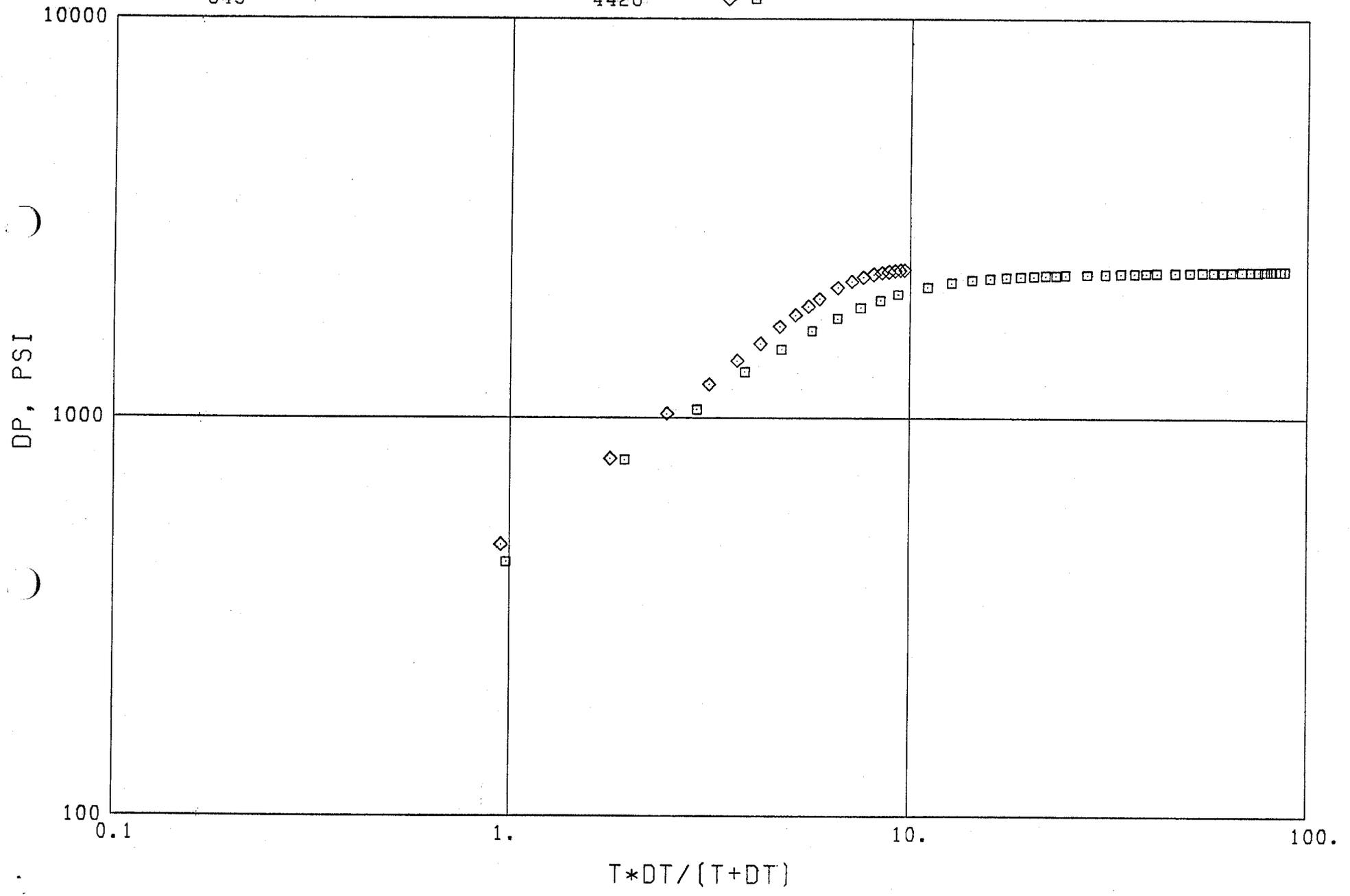
GAUGE NO CIP 1 2
649 ◇ □

GAUGE NO CIP 1 2
4426 □



GAUGE NO CIP 1 2
649

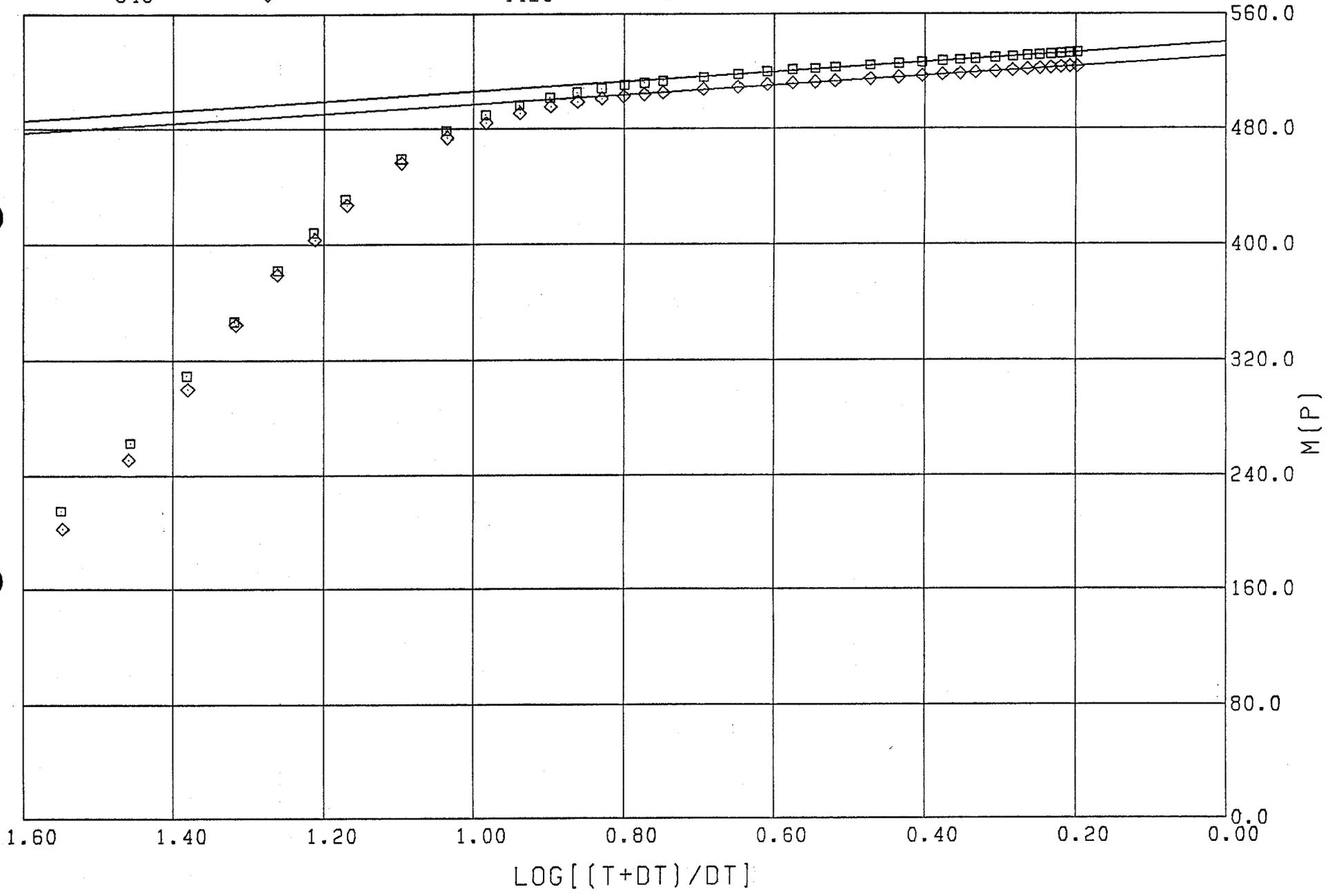
GAUGE NO CIP 1 2
4426 \diamond \square



TICKET NO 86850400

GAUGE NO: CIP 1 2
649 ◇

GAUGE NO: CIP 1 2
4426 □



**SUMMARY
OF
RESERVOIR PARAMETERS
USING HORNER METHOD**

GAS GRAVITY 0.600 TEMPERATURE 133.0 °F
 NET PAY 0.0 ft POROSITY 8.0 %
 RADIUS OF WELL BORE 0.365 ft VISCOSITY 0.018 cp
 GAS DEVIATION FACTOR 0.841 GAS PROPERTIES AT 2673.5 P_{sig}
 SYSTEM COMPRESSIBILITY 0.00048038 vol/vol/psi

GAUGE NUMBER	649	4426						
GAUGE DEPTH	5925.0	6046.0						
FLOW AND CIP PERIOD	2	2						UNITS
FINAL FLOW PRESSURE	292.7	306.2						P _{sig}
TOTAL FLOW TIME	138.1	138.1						min
CALC. STATIC PRESSURE P*	2646.6	2673.5						P _{sig}
EXTRAPOLATED PRESSURE m(P*)	530.6	540.2						$\frac{m\text{psi}^2}{\text{cp}}$
ONE CYCLE PRESSURE m(P ₁₀)	497.4	506.3						$\frac{m\text{psi}^2}{\text{cp}}$
PRODUCTION RATE Q	720.2	720.2						MCFD
FLOW CAPACITY kh	21.0080	20.6222						md-ft
PERMEABILITY k	0.20800	0.20418						md
SKIN FACTOR S	14.1	14.0						
DAMAGE RATIO DR	4.52	4.52						
INDICATED RATE MAX AOF ₁	731.4	732.2						MCFD
INDICATED RATE MIN AOF ₂	725.8	726.1						MCFD
THEORETICAL RATE DR×AOF ₁	3306.2	3311.7						MCFD
THEORETICAL RATE DR×AOF ₂	3280.7	3284.5						MCFD
RADIUS OF INVESTIGATION r _i	26.7	26.5						ft

REMARKS:

NOTICE:

THESE CALCULATIONS ARE BASED UPON INFORMATION FURNISHED BY YOU AND TAKEN FROM DRILL STEM PRESSURE CHARTS, AND ARE FURNISHED TO YOU FOR YOUR INFORMATION. IN FURNISHING SUCH CALCULATIONS AND EVALUATIONS BASED THEREON, HALLIBURTON IS HERELY EXPRESSING ITS OPINION. YOU AGREE THAT HALLIBURTON MAKES NO WARRANTY EXPRESS OR IMPLIED AS TO THE ACCURACY OF SUCH CALCULATIONS OR OPINIONS, AND THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER DUE TO NEGLIGENCE OR OTHERWISE, IN CONNECTION WITH SUCH OPINIONS.

DST-41

BEST COPY AVAILABLE

TICKET NO. 868504 DATE 8-20-84 ELEVATION (ft.) 5906 64
 TOP OF TESTED INTERVAL (ft.) 5948 BOTTOM OF TESTED INTERVAL (ft.) 6049
 NET PAY (ft.) 21 TOTAL DEPTH (ft.) 6049
 HOLE OR CASING SIZE (in.) 8 3/4 MUD WEIGHT (lb./gal.) 9 VISCOSITY (sec.) 32
 SURFACE CHOKE (in.) 1 1/4 3 3/4 BOTTOM CHOKE (in.) 1.75
 OIL GRAVITY 0 °F GAS GRAVITY—ESTIMATED 1.75 ACTUAL

SAMPLER DATA

TEMPERATURE (°F)

PRESSURE (P.S.I.) 385 CUBIC FT. OF GAS 2.49
 C.C.'s OF OIL 50 C.C.'s OF WATER
 C.C.'s OF MUD 50 TOTAL LIQUID C.C.'s 100

ESTIMATE
 ACTUAL 133
 DEPTH (ft.) 6045
 H.T. 500 THERMOMETER
 T.E. OR R.T. 7 OTHER
 SERIAL NO.

GAS/OIL RATIO (cu. ft. per bbl.)

FROM SAMPLER OTHER

RECORDER AND PRESSURE DATA

CHARTS READ BY DATA APPROVED BY

RECORDERS	Gauges				TIMES (00:00-24:00 HRS.)		
	GAUGE NUMBER	GAUGE TYPE	GAUGE DEPTH (ft.)	CLOCK NUMBER	CLOCK RANGE (HR.)	TOOL OPENED	DATE
	4426	2	6046	11654	24	0337	8-20-84
	629	1	5925	2786	24	1422	8-20-84
	INITIAL HYDROSTATIC		2879.5	2807.1			
P	INITIAL FLOW		216.2	159.9	XXX	XXX	
R	1st. FINAL FLOW		235.8	231	1st. FLOW	15	
E	CLOSED-IN		2615.9	2589.7	1st. C.I.P.	30-02	
S	INITIAL FLOW		253.8	231	XXX	XXX	
S	2nd. FINAL FLOW		310.2	284.2	2nd. FLOW	120	
U	CLOSED-IN		2653.5	2616.9	2nd. C.I.P.	240	
R	INITIAL FLOW				XXX	XXX	
E	3rd. FINAL FLOW				3rd. FLOW		
S	CLOSED-IN				3rd. C.I.P.		
	FINAL HYDROSTATIC		2860.7	2798.1	XXX	XXX	

ADDITIONAL RECORDER AND PRESSURE DATA SPACE ON BACK SHEET IF NEEDED

DO NOT WRITE IN THIS AREA—FOR REPORT SECTION USE ONLY

1st Tool open @ Good blow air
 GTS in 10 mins

2nd Good blow gas stabilizer @ 700 mat in 30 mins
 continue throughout test

BEST COPY AVAILABLE

DATES AND TIMES (00:00-24:00 HRS.)	CHOKE SIZE (IN.)	SURFACE PRESSURE (P.S.I.)	GAS RATE (MCF/D)	LIQUID RATE (BBL/D)	REMARKS
0010					ON LOG
0240					Pick up TOOLS
0356					T. I. H. W/ TOOLS
0737	1/8				TOOL OPENED
0740	1/4				OPEN THRU 1/4" CHOKE
0742	"	26	60.3		
0747	"	57	106.04		
0749					GAS TO SUR.
0752		92	157.58		CLOSE TOOL
0822	1/4"				OPEN TOOL
0827	"	122	201.77		
0832	"	165	265.1		
0837	3/4	160	1095.8		OPEN THRU 3/4" CHOKE
0842	"	132	920.5		
0847	"	120	845.4		
0852	"	105	751.46		
0857	"	100	720.15		
0902	"	93	676.32		
0907	"	93	676.32		
0912	"	93	676.32		
0917	"	93	676.32		
0922	3/4	94	682.58		
0932	"	95	688.8		
0942	"	96	695.10		
0952	"	98	707.63		
1002	"	98	707.63		
1012	"	99	713.89		
1022	"	100	720.15		CLOSE TOOL
1422					OPEN BY-PASS
1439					P.O.O.H.
1800					DRAIN SAMPLER DRESS O.C.P.
					LEAD CUT
2100					THRU W/JOB

0046

TOOL NAME	TOOL NO.	O.D. (IN.)	I.D. (IN.)	LENGTH (FT.)	DEPTH (FT.)	
DRILL PIPE	1	4.500	3.826	5289	BEST COPY AVAILABLE	
DRILL COLLARS	3	6.250	2.250	60.120		
REV SUB	50-51	6.000	3.000	1.000		
DRILL COLLARS	3	6.250	2.250	61.40		
CROSS-OVER	5	6.063	2.500	1.190		
D.C. IP SAMPLER	13	5.000	.75	6.750		
HYDROSPRING	60	5.000	.75	5.000		5923
REPAIRING CASE BR	80	5.000	3.060	4.120		5925
BIG JOHN TARS	15	5.000	1.750	5.000		
SHFTY JOINT NR	16	5.000	1.000	2.800		
PICKER O.H.	70	7.750	1.530	5.810	5940	
DISTRIBUTOR 180psi	18	5.000	1.680	2.000		
PICKER O.H.	70	7.750	1.530	5.810	5948	
FLUSH JOINT ARCH.	20	5.750	2.870	30.000		
CROSS-OVER	5	6.000	3.250	1.270		
DRILL COLLARS	3	6.250	2.250	60.120		
CROSS-OVER	5	6.000	2.250	1.040		
FLUSH JOINT ARCH	20	5.750	2.870	3.000		
REPAIRING CASE BLANK	81	5.750	2.500	4.120	6046	
				70	6049	

TOOL NUMBERS AS ASSIGNED BY TESTER

TOOL NAMES

- 97 = _____
- 98 = _____
- 99 = _____

TOOL NAME	TOOL NO.	O.D. (IN.)	I.D. (IN.)	LENGTH (FT.)	DEPTH (FT.)
DRILL PIPE	1	4.500	3.826	5379	
DRILL COLLARS	3	6.250	2.250	602.76	
REV. SUB	50-51	6.000	3.000	1.000	5957
DRILL COLLARS	3	6.250	2.250	60.120	
CROSS-OVER	5	6.063	2.500	1.190	
D.C. IF SAMPLER	13	5.000	.750	6.750	
HYDRA SPRING	60	5.000	.750	5.000	6033
INTERNAL CASE A.P.	80	5.000		4.120	6035
16 1/2 TONS TARS	15	5.000	1.750	5.000	
SMALL TONS TARS	16	5.000	1.000	2.800	
WACKER - O.H.	70	7.750	1.530	5.810	6050
CONTRIBUTOR 1800	18	5.000	1.680	2.000	
WACKER O.H.	70	7.750	1.530	5.810	6058
FLUSH JOINT WACKER	20	5.750	2.870	24.000	
CROSS-OVER	5	6.000	3.250	1.270	
DRILL COLLARS	3	6.250	2.250	29.990	
CROSS-OVER	5	6.00	2.250	1.040	
FLUSH JOINT WACKER	20	5.750	2.870	5.000	
RUNNING CASE-BLANK	81	5.750	2.500	4.120	6122
					6125 TO

TOOL NUMBERS AS ASSIGNED BY TESTER

TOOL NAMES

- 97 = _____
- 98 = _____
- 99 = _____

DATES AND TIMES (00:00-24:00 HRS.)	CHOKE SIZE (IN.)	SURFACE PRESSURE (P.S.I.)	GAS RATE (MCF/D)	LIQUID RATE (BBL/D)	REMARKS
8 21 34 1400					ON LOC
1815					PICK up Tools
1930					T I H. w/ Tools
2822	1/2	BUBBLE HOSE			TOOL OPENED
2827	"	2 02			
2832	"	3.5 02			
2837	"	5 02			
2842	"	7.5 02			
2847	"	10.5 02			
2355 8-31 PM 0052	"	13 02			CLOSE TOOL
	1/8				OPEN TOOL
0057		4 PSI			
0101					OPEN THRU 16/64 CHOKE
0102	1/4	7 PSI			
0107	1/4	7 PSI			
0112	"	5.5			
0117	"	5 PSI			
0122 0125	"	4.5			GAS TO SURFACE
0127	"	4			
0135	1/4	3.5			
0137	"	3			
0142	"	2			
0147	"	2			
0152	"	2			
0202	"	2			
0212	1/4	2 PSI			
0222	"	2			
0232	"	2			
0242	"	2			
0252	"	2			CLOSE TOOL
0652					OPEN BY-PASS
0707					P.O.O.H.
1040					DROP BAR TO RED. OUT
1115					DRAIN SAMPLER, BREAK DOWN
					TOOLS LIFT OUT READ CHARTS
					THRU W/ JOB

GEOLOGICAL WELL REPORT

SKYLINE OIL CO.
Mustang Unit # 27-32
Sec. 27, T 36 S - R 23 E
San Juan Co. Utah

By: B. F. Latch
Sept. 25, 1984

SKYLINE OIL CO.
Mustang Unit # 27-32
Sec. 27, T 36 S - R 23 E
San Juan Co. Utah

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GENERAL OPERATIONS

The drilling of this well was undertaken using rotary tools. Fresh water and a chemically treated gel mud were used as the circulating medium.

In order to protect fresh water aquifers and to insure against drilling problems, a protective string of 9-5/8" casing was set to a depth of 2097'. This is sufficient casing to cover all fresh water aquifers recognized in the area. Sufficient cement was run to circulate to the surface.

All drilling objectives were accomplished with a minimal amount of operational problems. At no time did situations arise that constituted an undue danger to either the drilling equipment or the personnel involved in the operation.

=====

EVALUATION

GEOLOGICAL SUPERVISION:

This well was under constant geological supervision from a depth of 4500' until total depth was reached.

SAMPLES:

Ten foot samples were caught from a depth of 4500' to the total depth of 6348'. Sample quality was

fair to good. All samples were caught and microscopically examined while drilling was in progress.

MUD LOGGING:

A one man mud logging unit was utilized from a depth of 4500' until the total depth was reached. This unit was equipped with both a hot wire and a chromatograph for hydrocarbon analysis.

Several shows were encountered during the drilling of the well but only two were associated with sufficient porosity and shows of sufficient magnitude to warrant a drill stem test in the eyes of the well site geologist.

CORES:

It was planned to core the lower bench of the Desert Creek formation in this well. This was accomplished by cutting core # 1, from 6272 to 6332. Full recovery was attained in this core but the absence of both viable porosity and legitimate shows precluded any further efforts to evaluate this zone.

DRILL STEM TESTS:

Two drill stem tests were set up for this well.

DST No. 1, was conducted over the interval 5948' to 6049'. This was an effort to test the upper Ismay pay zone. Results of this test confirmed that the upper zone of porosity in this reservoir is primarily gas bearing.

DST No. 2, was conducted over the interval 6058' to 6152'. This was an effort to determine the content of the lower zone of porosity in the upper zone of the Ismay.

This test recovered some oil and gas but also indicated a probable low permeability zone that will be amenable to treatment. Detailed DST information is appended to the end of this report.

ELECTRICAL LOGGING:

Upon reaching a total depth of 6348' the following logs were run by Schlumberger.

DIL - SFL w GR	2097 - 6346
BHC SONIC w GR & CALIPER	5050 - 6346
CNL - FDC w GR & CALIPER	5050 - 6346

Evaluation of these logs revealed no additional zones of interest and confirmed the sample and mud log analysis of the prospective zones.

CONCLUSIONS

Evaluation of all information available indicated this well to have substantial economic value in the upper and lower Ismay zones.

It was recommended that casing be set on this well and a completion attempt made.

These steps are now being taken.

RECOMMENDATIONS

The superior stratigraphic conditions that had been anticipated in this well were found to be present. The upper Ismay zone was comprised of fairly clean limestones and dolomites with the dolomites displaying some fair inter-

crystalline and vugular porosity. These porosity zones yielded strong gas shows on the mud logging unit and some visible staining with odor was observed in the samples.

This well confirms the northwest southeast orientation of this reservoir body. Additional subsurface studies should be made of the area.

Now is probably the time for cautious step out drilling and final delineation of the areal extent of this field.

IMPORTANT LOG TOPS

AGE	FORMATION	DEPTH	DATUM
Triassic	Shinarump	2639	+3280
Permian	Moenkopi	2770	+3149
Pennsylvanian	Cutler	2950	+2969
" "	Hermosa	4865	+1054
" "	Ismay (upper)	5970	-0051
" "	Ismay (lower)	6144	-0225
" "	Desert Creek	6220	-0301
" "	Akah	6290	-0371
" "	Salt	6347	-0428

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE

(See instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.8

7

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION:
NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. REVR. Other _____

2. NAME OF OPERATOR
Texas Eastern Skyline Oil Company

3. ADDRESS OF OPERATOR
1775 Sherman, Suite 1200, Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 2340' FEL & 1628' FNL (SWNE) Sec. 27, T36S, R23E, SLB&M

At top prod. interval reported below

At total depth Same

At total depth Same

14. PERMIT NO. DATE ISSUED
API#43-037-31025 6-18-84

RECEIVED
NOV 30 1984
DIVISION OF
OIL, GAS & MINING
ISM4

5. LEASE DESIGNATION AND SERIAL NO.
U-46818

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Mustang

8. FARM OR LEASE NAME
Mustang Unit

9. WELL NO.
27-32

10. FIELD AND POOL, OR WILDCAT
Mustang Flat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 27, T36S, R23E, SLB&M

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

15. DATE SPUDDED 8-9-84 16. DATE T.D. REACHED 8-25-84 17. DATE COMPL. (Ready to prod.) 11-18-84 18. ELEVATIONS (DF, RKB, RT, OR, ETC.)* OGL-5906' 19. ELEV. CASINGHEAD 5905'

20. TOTAL DEPTH, MD & TVD 6348 21. PLUG, BACK T.D., MD & TVD 6307 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY → ROTARY TOOLS X CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Upper Ismay 6064'-6078'

25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
GR-DIL-SFL, GR-FDC-CNL, GR-BHC Sonic, GR-CBL-CCL

27. WAS WELL CORED
Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
16"	Tinhorn	44'	20"	125 sx Class 'B'	None
9-5/8"	36#	2101'	12 1/2"	350 sx Lite & 300 sx 'B'	None
5 1/2"	155	6348'	8-3/4"	340 sx Lite & 250 sx 'H'	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8	6054	6054

31. PERFORATION RECORD (Interval, size and number)

6064-6068	9 - .5" holes
6072-6078	12 - .5" holes
6010-6030	21 - .5" holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6064-6078	1500 gals 28% HCl
6010-6030	2500 gals 28% HCl

33. PRODUCTION

DATE FIRST PRODUCTION 9-4-84 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11-20-84	24	32/64"	→	47.2	381	5	8072

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
195	420	→	47.2	381	5	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Flared TEST WITNESSED BY Terry Crowson

35. LIST OF ATTACHMENTS
Electric logs, Geologic Report, DST Report

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Michael J. Anderson TITLE Staff Engineer DATE Nov. 21, 1984

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Ismay	5948'	6049'	DST#1 15-30-120-240 Gas stabilized @ 700 MCFD in 30 mins. Recovered 767' SO&GCM
Ismay	6058'	6152'	DST#2 30-60-120-240 Gas to surface in 30 mins. - TSTM Recovered 30' Free oil, 10' OCM and 304' Mud.
Desert Creek	6272'	6332'	Core#1. No show or porosity in core. Core not analyzed.

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Shinarump	2639		
Moenkopi	2770		
Cutler	2950		
Hermosa	4865		
Ismay (Upper)	5970		
Ismay (Lower)	6144		
Desert Creek	6220		
Akah	6290		
Salt	6347		

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.
U-46818

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>2. NAME OF OPERATOR SKYLINE OIL COMPANY</p> <p>3. ADDRESS OF OPERATOR 2000 University Club Building, S.L.C., Utah 84111</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2340' FEL & 1628' FNL (SW NE) Sec. 27, T.36 S., R.23 E.</p> <p>14. PERMIT NO. API #43-037-31025</p>	<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME MUSTANG</p> <p>8. FARM OR LEASE NAME MUSTANG UNIT</p> <p>9. WELL NO. 27-32</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec. 27, T. 36 S., R. 23 E., S1B&M</p> <p>12. COUNTY OR PARISH San Juan</p> <p>13. STATE Utah</p>
<p>15. ELEVATIONS (Show whether DT, RT, OR, etc.) OGL-5906'</p>	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

*NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log (Form 3160-6)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Skyline intends to complete this well as follows:

1. Clean out casing to ± 6300'.
2. Run GR-CBL-CCL log 6300' - cement top.
3. Perforate 5½" casing 6064' - 6068' and 6072' - 6078'.
4. Acidize with 1500 gals. 28% HCl.
5. Swab and flow test well.
6. Isolate interval 6064-6078'. Perforate interval 6010' - 6030'.
7. Acidize w/ 2000 gals. 28% HCl.
8. Swab and flow test well.
9. Place well on production.

RECEIVED
AUG 21 1984
**DIVISION OF OIL
GAS & MINING**

18. I hereby certify that the foregoing is true and correct

SIGNED Michael D. Anderson TITLE Staff Engineer DATE 8-29-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:
Federal approval is required.

ACCEPTED
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE 9/4/84
BY: John R. Bury

Title 13 U.S.C. Section 1001, makes 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form Approved
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT..." for such proposals.)

<p>1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR SKYLINE OIL COMPANY</p> <p>3. ADDRESS OF OPERATOR 2000 University Club Building, S.L.C., Utah 84111</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2340' FEL & 1628' FNL (SW NE) Sec. 27, T. 36 S., R.23E.</p> <p>14. PERMIT NO. API #43-037-31025</p> <p>15. ELEVATIONS (Show whether DY, XT, GR, etc.) OGL-5906'</p>	<p>5. LEASE DESIGNATION AND AERIAL NO. U-46818</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME MUSTANG</p> <p>8. FARM OR LEASE NAME MUSTANG UNIT</p> <p>9. WELL NO. 27-32</p> <p>10. FIELD AND POOL, OR WILDCAT MUSTANG FLAT</p> <p>11. SEC., T., R., M., OR BLM, AND SURVEY OR AREA Sec. 27, T. 36 S., R. 23 E., SLB&M</p> <p>12. COUNTY OF PARISH 13. STATE San Juan Utah</p>
--	--

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZING <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>DST and casing</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)	

17 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 8-3/4" hole to 6045'. Ran DST #1 5948' - 6045'.
 Drilled 8-3/4" hole to 6125'. Ran DST #2 6058' - 6125'.
 Drilled 8-3/4" hole to 6273'. Cut Core #1 6273' - 6333'. Cut 60'.
 Recovered 60'. Drilled 8-3/4" hole to TD of 6348'. Ran GR-DIL-SFL, GR-FDC-CNL, and GR-BHC Sonic logs. Ran 160 jts. 5 1/2" 15.5# K-55 STC casing to 6348'. Cemented w/ 340 sx Lite and 250 sx Class 'H' containing 1/4#/sx Flocele. Displaced w/150 BW. Bumped plug to 500 psi. Nipple down BOP and set slips. Released rig.

RECEIVED
AUG 31 1984
DIVISION OF OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Michael D. Anderson TITLE Staff Engineer DATE 8-29-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

8. LEASE DESIGNATION AND SERIAL NO.

9. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Mustang

8. FARM OR LEASE NAME

Mustang Unit

9. WELL NO. 22-34, 26-23,

27-21, 27-32, 27-43 & 3

10. FIELD AND POOL, OR WILDCAT

Mustang Flat

11. SEC., T., R., M., OR BLK. AND
SUBVY OR ARRA

Sec. 22, 26 & 27, T36S,
R23E, SLB&M

12. COUNTY OR PARISH | 13. STATE

San Juan

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Texas Eastern Skyline Oil Company

3. ADDRESS OF OPERATOR

1775 Sherman, Suite 1200, Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

14. PERMIT NO.

15. ELEVATIONS (Show whether DP, ET, OR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Texas Eastern Skyline Oil Company proposes to install and operate a produced gas gathering and reinjection system in the Mustang Flat Field. The system will consist of wellhead compression and dehydration at wells 22-34, 27-21, 27-32 and 27-43 and wellhead dehydration at well 26-23. A 4" nominal gas pipeline will be laid as shown on the attached map. Each well will be tied into the main gas pipeline by a 2" or 3" lateral. Those sections of the pipeline shown in blue will be buried. Those sections shown in red will be laid on the surface. A central, main injection compressor will be installed at the Mustang Unit #3. Two slug catchers at Mustang Unit #3 and one inline slug catcher at #27-43 will be installed. A 2" liquids pipeline will run from #3 to #27-43 to return liquids caught by the slug catcher and by the interstage liquid knockout on the compressor to treating and storage facilities at the #27-43 location.

18. I hereby certify that the foregoing is true and correct

SIGNED Melvin D. Anderson

TITLE Staff Engineer

DATE Nov. 13, 1984

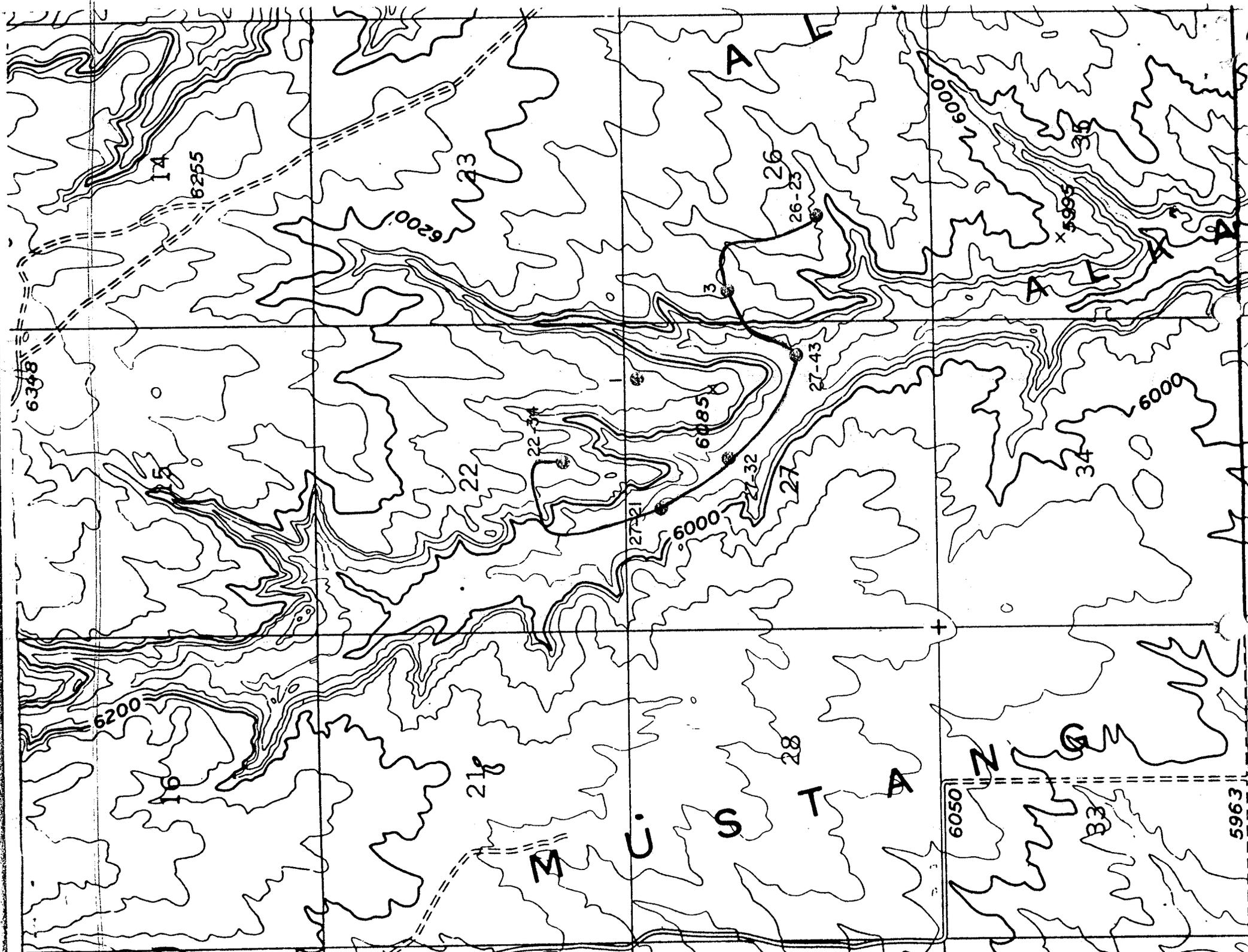
(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

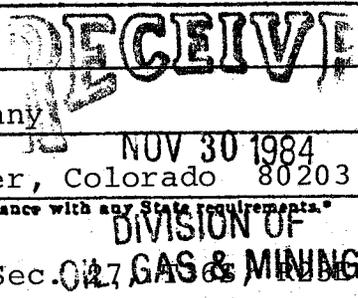
*See Instructions on Reverse Side



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)



1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-46818
2. NAME OF OPERATOR Texas Eastern Skyline Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1775 Sherman, Suite 1200, Denver, Colorado 80203		7. UNIT AGREEMENT NAME Mustang
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2340' FEL & 1628' FNL (SW NE) Sec. 27, T36S, R23E, SLB&M		8. FARM OR LEASE NAME Mustang Unit
14. PERMIT NO. API #43-037-31025	15. ELEVATIONS (Show whether DF, RT, OR, etc.) OGL-5906'	9. WELL NO. 27-32
		10. FIELD AND POOL, OR WILDCAT Mustang Flat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 27, T36S, R23E, SLB&M
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) 72 hr. GOR Test <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

As required, please find the 72-hour GOR Test for the subject well.

	BO	BW	MCF	Choke	FTP	GOR
11-22-84	55.5	--	384	32/64"	180	6919
11-23-84	48.8	2	384	32/64"	195	7869
11-24-84	55.4	1	331	32/64"	200	5975
TOTALS	159.7	3	1099	32/64"	-	6882
Daily average	53.2	1	366	32/64"	-	6882

18. I hereby certify that the foregoing is true and correct
 SIGNED Michael D. Anderson TITLE Staff Engineer DATE 11-26-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate*
(Other instructions reverse side)

D. LEASE DESIGNATION AND SERIAL NO.

U-46818

E. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Texas Eastern Skyline Oil Company

3. ADDRESS OF OPERATOR
1775 Sherman, Suite 1200, Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
2340' FEL & 1628' FNL (SW NE) Sec. 27, T36S, R23E

7. UNIT AGREEMENT NAME
Mustang

8. FARM OR LEASE NAME
Mustang Unit

9. WELL NO.
27-32

10. FIELD AND POOL, OR WILDCAT
Mustang Flat

11. SEC., T., S., M., OR BLK. AND SURVEY OR AREA
Sec. 27, T36S, R23E, SLB & M

14. PERMIT NO.
API #43-037-31025

15. ELEVATIONS (Show whether DF, ST, OR, etc.)
OGL - 5906'

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) Flare casinghead gas <input checked="" type="checkbox"/>	

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Texas Eastern Skyline Oil Company respectfully requests that the subject well be allowed to flare casinghead gas in accordance with NTL-4A part IV B. Presently the closest existing pipeline is more than 12 miles distant. We received a proposal from Phillips Petroleum to gather and process the gas, however the proposal called for a three step net proceeds contract with the initial net to the operator of 10% of the total net proceeds. We deemed this proposal unacceptable. Therefore, TESOC has designed and proposed a gas gathering and injection system for gathering the produced gas and re-injecting into the reservoir. Total estimated cost of the system exceeds \$3,340,000. The information derived from the producing of this well is extremely important to the economic success of the gas injection system. Under our present projection we anticipate that our gas gathering and injection system will be operational by February 15, 1984. Your consideration of this request is appreciated.

18. I hereby certify that the foregoing is true and correct

SIGNED *Michael A. Anderson*

TITLE Staff Engineer

DATE Nov. 21, 1984

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

Refer to state approval letter dated 11/21/84 - JRB

*See Instructions on Re



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

December 3, 1984

Mr. Michael Anderson
Texas Eastern Skyline Oil Company
1200 Mellon Financial Center
1775 Sherman Street
Denver, Colorado 80203

Dear Mr. Anderson:

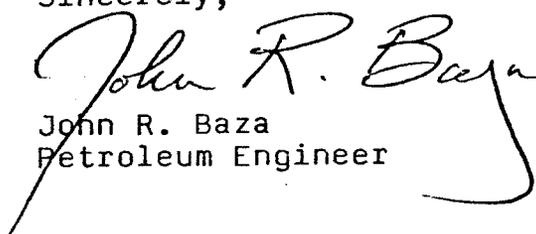
Re: Gas Flaring from Mustang Unit Well No. 27-32, Sec. 27, T. 36S,
R. 23E, San Juan County, Utah.

The Division staff has received and reviewed your request dated November 26, 1984 to flare gas from the referenced well pursuant to the emergency order in Cause No. 196-15. In order to allow continued data collection and timely development of the field, the Division staff has determined that the referenced well may be produced at an unrestricted rate and associated gas may be flared as long as the GOR does not exceed 10,000 cubic feet per barrel for a seven day period. This relief is granted administratively only until the next scheduled Board hearing in December.

Please note that both the emergency order and the administrative relief granted are interim measures which apply to this well only until a new petition to flare gas is considered at the December Board hearing. Adequate justification must be presented at that time to allow continued gas flaring.

If you have any questions concerning this approval, please contact me or Ron Firth of this office.

Sincerely,


John R. Baza
Petroleum Engineer

sb

cc: D.R. Nielson
R.J. Firth
Well File
96840-87

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME Mustang	
2. NAME OF OPERATOR TEXAS EASTERN SKYLINE OIL COMPANY		8. LEASE DESIGNATION AND SERIAL NO. U-46818	
3. ADDRESS OF OPERATOR 1775 Sherman St., Suite 1200, Denver, Colorado 80203		9. IF INDIAN, ALLOTTEE OR TRIBE NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2340' FEL & 1628' FNL (SW NE) Sec. 27, T36S, R23E		10. FIELD AND POOL, OR WILDCAT Mustang Flat	
14. PERMIT NO. API #43-037-31025		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 27, T36S, R23E, SLB&M	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) OGL - 5906'		12. COUNTY OR PARISH San Juan,	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) _____	(Other) _____

*NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Texas Eastern Skyline Oil Company respectfully requests the following changes to the approved APD:

1. Change Exhibit "F" as shown on the attached diagram.
2. Change item 4 of the Multipoint Surface Use and Operations Plan to read "two - 500 bbl. production tanks and one - 300 bbl. water tank inside a 60' x 30' x 4.5' earthen retaining wall."

RECEIVED
JAN 08 1985

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Michael D. Anderson TITLE Staff Engineer DATE December 30, 1984

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:
Federal approval of this action is required before commencing operations.

ACCEPTED DATE _____
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 1/9/85
BY: John R. Bays

*See Instructions on Reverse

TEXAS EASTERN SKYLINE OIL COMPANY

MUSTANG UNIT #27-32

PRODUCTION FACILITIES

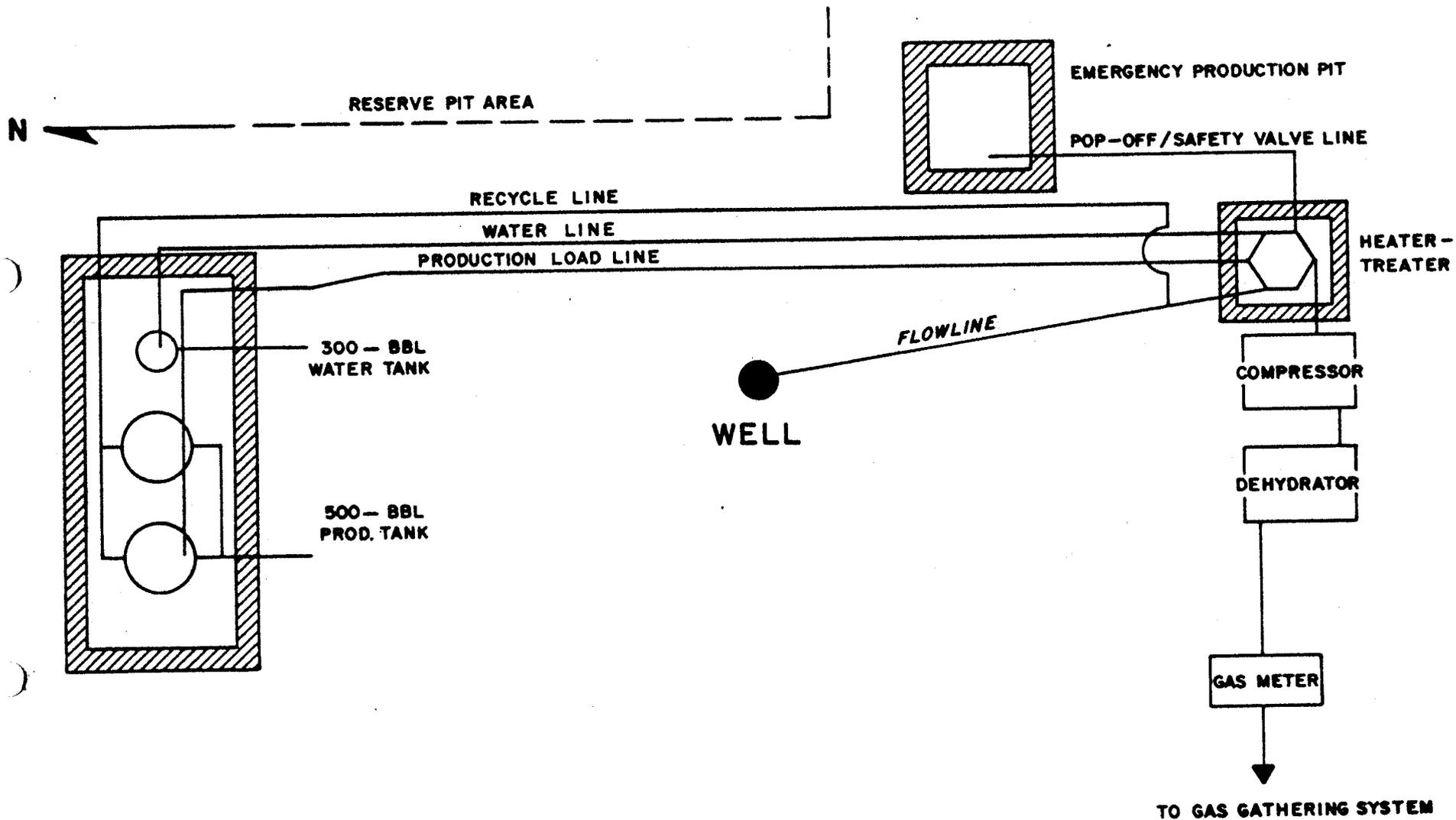


EXHIBIT "F"

TEXAS 
EASTERN
Skyline Oil Company

A TEXAS EASTERN COMPANY

January 11, 1985

State of Utah
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
Attn: John Baza

RECEIVED
JAN 15 1985
DIVISION OF
OIL, GAS & MINING

Re: Mustang Unit #27-32
SW NE Sec. 27, T36S, R23E
San Juan County, Utah

Dear Mr. Baza:

As you will recall, Texas Eastern Skyline Oil Company has been flow testing the above-referenced well in accordance with the flaring order set out in ~~Case No. 8196-815~~.

On December 6, 1984 we performed an acid frac on the subject well. While swabbing back the load water the swab mandrel was lost in the tubing. The well subsequently began flowing and the mandrel left in the well for 12 days. The well was then worked over and the swab mandrel recovered.

After placing the well back on production and the recovery of the load water nearly complete it became obvious that the well would not produce at a GOR lower than 10,000:1 and was therefore shut in.

The subject well has been perforated in two distinct porosity intervals in the Upper Ismay. Both intervals were tested separately and together. It was determined that the majority of the oil production was coming from the lower set of perforations; therefore, production equipment consisting of a packer, sliding sleeve and profile nipples were run with the packer set between the two sets of perforations.

A thorough analysis of the production information since the December 6th acid frac indicates that there was a leak somewhere in the production equipment probably causing gas from the upper set of perforations to enter the tubing and be produced with the fluids from the lower set of perforations. This has

State of Utah
Re: Mustang Unit #27-32

January 11, 1985
Page 2

resulted in a GOR that is higher than would be produced from the lower perforations alone.

Texas Eastern Skyline Oil Company therefore respectfully requests permission to run a temperature survey while the well is producing to determine if there is in fact a leak in the downhole production equipment. If the leak does exist, we would replace the leaking equipment and place the well back on production subject to the order in Cause No. 196-15, if no leak exists the well would be shut in until such time as the field-wide gas gathering system is operational.

Your prompt consideration of this request is appreciated.

Sincerely,

TEXAS EASTERN SKYLINE
OIL COMPANY


Michael D. Anderson
Staff Engineer

MDA:tk

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 1/18/85
BY: John R. Baya



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 8, 1985

Texas Eastern Skyline Oil Company
1775 Sherman, Suite 1200
Denver, Colorado 80203

Gentlemen:

Re: Well No. Mustang Unit 27-32 - Sec. 27, T. 36S., R. 23E.
San Juan County, Utah - API #43-037-31025

According to our records a "Well Completion Report" filed with this office November 21, 1984 on the above referred to well indicates a GR-CBL-CCL electric log was run. This office has not yet received this log.

Please take care of this matter as soon as possible, but not later than March 7, 1985.

Your cooperation in this matter is appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Claudia L. Jones".

Claudia L. Jones
Well Records Specialist

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File
0087S/36

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP DATE*
(Other instructions on reverse side)

Form approved,
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-46818
2. NAME OF OPERATOR TEXAS EASTERN SKYLINE OIL COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1775 Sherman St., Suite 2000, Denver, Colorado 80203		7. UNIT AGREEMENT NAME Mustang
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2340' FEL & 1628' FNL (SW NE) Sec. 27, T36S, R23E		8. FARM OR LEASE NAME Mustang Unit
14. PERMIT NO. API # 43-037-31025	15. ELEVATIONS (Show whether DF, RT, GR, etc.) OGL - 5906'	9. WELL NO. 27-32
		10. FIELD AND POOL, OR WILDCAT Mustang Flat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 27, T36S, R23E, SLB&M
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Texas Eastern Skyline Oil Company respectfully requests the following changes to the approved APD:

1. Change Exhibit "F" as shown on the attached diagram.
2. Change item 4 of the Multipoint surface Use and Operations Plan to include, "Additional equipment consisting of two 100-HP Compressors, two dehydrators, two slug catchers, and one 9' x 40' (approx.) pressurized horizontal storage tank will be installed."

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 7/14/85
BY: John R. Boyer

18. I hereby certify that the foregoing is true and correct

SIGNED Michael D. Anderson TITLE Staff Engineer DATE 3-28-85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

TEXAS EASTERN SKYLINE OIL COMPANY

MUSTANG UNIT 27-32

PRODUCTION FACILITIES

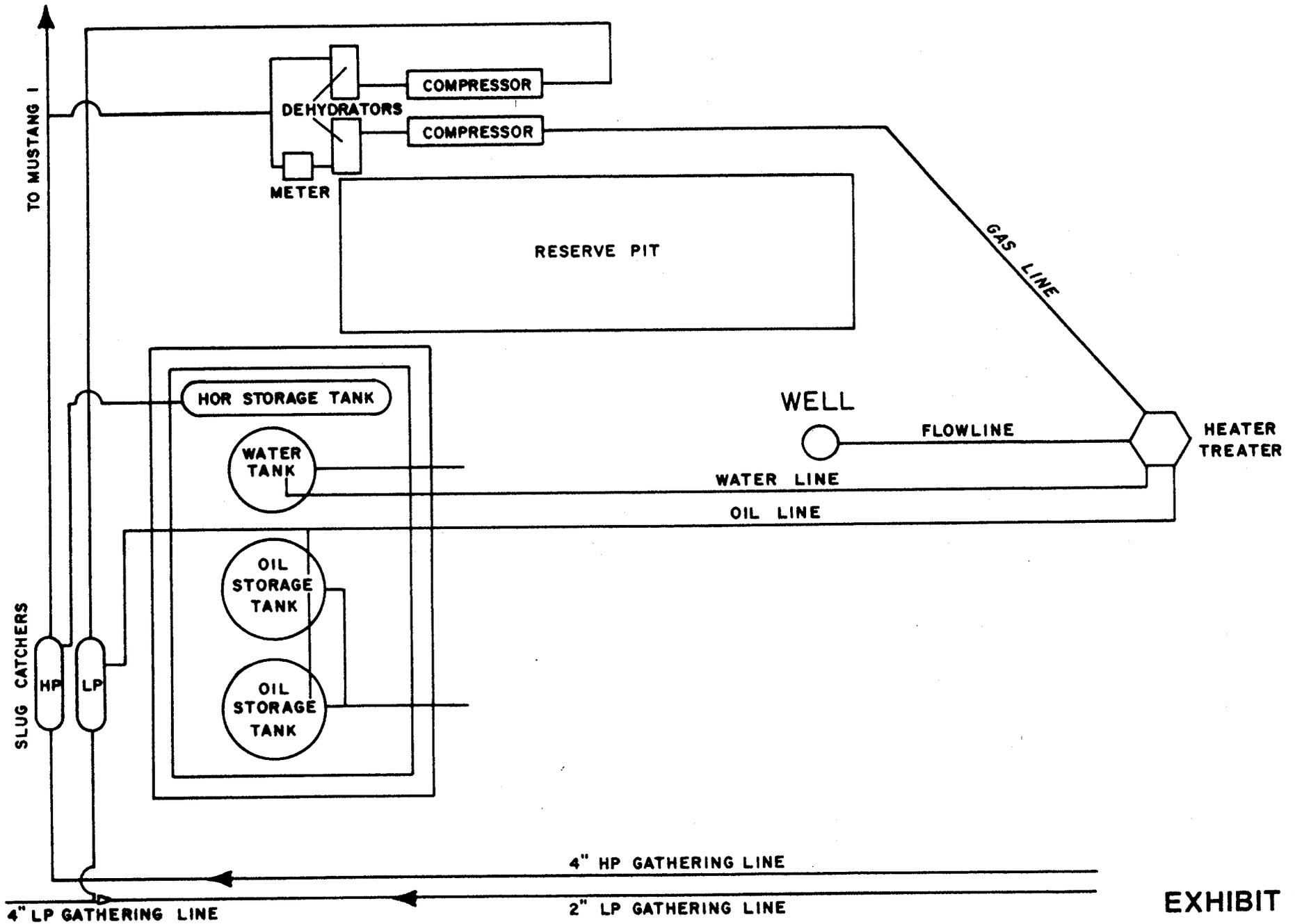


EXHIBIT "F"

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP DATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Texas Eastern Skyline Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1775 Sherman Street, Suite 1200, Denver, Colorado 80203		7. UNIT AGREEMENT NAME Mustang
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface		8. FARM OR LEASE NAME Mustang Unit
14. PERMIT NO.		9. WELL NO. 1, 3, 22-34, 26-23, 26-33, 27-21, 27-32, 27-43
15. ELEVATIONS (Show whether OF, RT, GR, etc.)		10. FIELD AND POOL, OR WILDCAT Mustang Flat
		11. SEC., T., R., M., OR BLK. AND SUBVY OR AREA Sec. 22, 26 & 27, T36S R23E, SLB&M
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Texas Eastern Skyline Oil Company proposes to modify the approved produced gas gathering and injection system as follows:

1. Install approximately 2000' of 2" liquids line between Nos. 1 & 27-32 to be buried in same trench as 4" pipeline.
2. Install 9' x 40' (approx.) horizontal storage tank at Well 27-32 instead of well No. 1.
3. Delete flare stack at Well #1.

RECEIVED

APR 02 1985

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Michael D. Anderson TITLE Staff Engineer DATE 3-28-85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPPLICATE
(Other instructions
verse side)

Form approved,
Budget Bureau No. 1004-0135
Expires August 31, 1985

2
7

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED	
MAY 01 1985	
DIVISION OF OIL GAS & MINING	
<p>1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR TEXAS EASTERN SKYLINE OIL COMPANY</p> <p>3. ADDRESS OF OPERATOR 1775 Sherman Street, Suite 1200, Denver, Colorado 80203</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2340' FEL & 1628' FNL (SW NE) Sec. 27, T36S, R23E</p> <p>14. PERMIT NO. API #43-037-31025</p>	<p>5. LEASE DESIGNATION AND SERIAL NO. U-46818</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME Mustang</p> <p>8. FARM OR LEASE NAME Mustang Unit</p> <p>9. WELL NO. 27-32</p> <p>10. FIELD AND POOL, OR WILDCAT Mustang Flat</p> <p>11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 27, T36S R23E, SLB&M</p> <p>12. COUNTY OR PARISH 13. STATE San Juan Utah</p>
<p>15. ELEVATIONS (Show whether DF, RT, OR, etc.) OGL - 5906'</p>	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>	(Other) <u>Placing well on production</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well was placed back on production April 27, 1985.

The well had been shut in since January 28, 1985.

18. I hereby certify that the foregoing is true and correct

SIGNED Michael D. Anderson TITLE Engineering Manager DATE April 29, 1985

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

orig. M. Yared
K.C. M. Anderson

Bureau of Land Management
Branch of Fluid Minerals (U-922)
324 South State Street
Salt Lake City, Utah 84111-2303

022404

February 6, 1987

Samedan Oil Corporation
1616 Glenarm Place
Suite 2550
Denver, Colorado 80202

L. M. TURNER
FEB 9 1987

Land & Property Admin.

Re: Successor of Operator
Mustang Unit
San Juan County, Utah

Gentlemen:

We received an indenture dated February 1, 1987, whereby Texas Eastern Skyline Oil Company resigned as Operator and Samedan Oil Corporation was designated as Operator for the Mustang Unit Agreement, San Juan County, Utah.

This indenture was executed by all required parties. The signatory parties have complied with Section 6 of the unit agreement. The instrument is hereby accepted effective as of February 6, 1987. Please advise all interested parties of the change in unit operator.

Sincerely,

(Orig. Sgd.) H.A. Lemm

Howard A. Lemm
Chief, Branch of Fluid Minerals

Enclosure

cc: Texas Eastern Skyline Oil Company

FEB 08 1987

DIVISION OF
OF 128 8 1987

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

6. LEASE DESIGNATION AND SERIAL NO.

U-46818

8. IF INDIAN, ALLOTTEE OR TRIBE NAME

022412

7. UNIT AGREEMENT NAME

Mustang

8. FARM OR LEASE NAME

Mustang Unit

9. WELL NO.

27-32

10. FIELD AND POOL, OR WILDCAT

Mustang Flat (Ismay)

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 27, T36S, R23E,
SLB&M

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Texas Eastern Skyline Oil Company

3. ADDRESS OF OPERATOR
1775 Sherman Street, Suite 1200, Denver CO 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

2340' FEL & 1628' FNL (SW NE) Sec. 27, T36S, R23E

14. PERMIT NO.
API #43-037-31025

15. ELEVATIONS (Show whether DP, RT, GR, etc.)
GL-5906'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANE

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other) Notice of Sale

REPAIRING WELL
ALTERING CASING
ABANDONMENT*
X

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Texas Eastern Skyline Oil Company on January 30, 1987, completed the sale of this property to Samedan Oil Corporation. Effective upon receipt by the BLM of the necessary paperwork, Samedan will assume all rights and obligations as Operator. Samedan's address is:

Samedan Oil Corporation
1616 Glenarm Place, Suite 2550
Denver, Colorado 80202

Attn: Gary Brune

RECEIVED
FEB 23 1987

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Michael D. Anderson
Michael D. Anderson
(This space for Federal or State office use)

TITLE Manager

DATE 2-2-87

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

STATE OF UTAH
 DIVISION OF OIL, GAS AND MINING
 OIL AND GAS INSPECTION RECORD

OPERATOR SAMEDAN Oil Corp. LEASE _____
 WELL NO. Mustang unit 27-32 API 43-037-31025
 SEC. 27 T. 36S R. 23E CONTRACTOR _____
 COUNTY SAN JUAN FIELD _____

SW/NE

DRILLING/COMPLETION/WORKOVER:

<input type="checkbox"/> APD	<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> SCPE
<input type="checkbox"/> SAFETY	<input type="checkbox"/> POLL. CONTROL	<input type="checkbox"/> SURFACE USE	<input type="checkbox"/> PITS
<input type="checkbox"/> OPERATIONS	<input type="checkbox"/> OTHER		

SHUT-IN _____ / TA _____ :
 WELL SIGN HOUSEKEEPING EQUIPMENT* SAFETY
 OTHER

ABANDONED:
 MARKER HOUSEKEEPING REHAB. OTHER

PRODUCTION:
 WELL SIGN HOUSEKEEPING EQUIPMENT* FACILITIES*
 METERING* POLL. CONTROL PITS DISPOSAL
 SECURITY SAFETY OTHER

GAS DISPOSITION:
 VENTED/FLARED SOLD LEASE USE

LEGEND: Y - YES OR SATISFACTORY
 N - NO OR UNSATISFACTORY
 NA - NOT APPLICABLE

*FACILITIES INSPECTED: Xmas tree Lsee Equip LOC.

REMARKS: Flowing well

ACTION: _____

INSPECTOR: GA DATE 9-6-88

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
OIL AND GAS INSPECTION RECORD

OPERATOR: SAMEDAN OIL CORPORATION LEASE: U-46818
WELL NAME: MUSTANG UNIT 27-32 API: 43-037-31025
SEC/TWP/RNG: 27 36.0 S 23.0 E CONTRACTOR:
COUNTY: SAN JUAN FIELD NAME: MUSTANG FLAT

DRILLING/COMPLETION/WORKOVER:

<input type="checkbox"/> APD	<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> BOPE
<input type="checkbox"/> SAFETY	<input type="checkbox"/> POLLUTION CNTL	<input type="checkbox"/> SURFACE USE	<input type="checkbox"/> PITS
<input type="checkbox"/> OPERATIONS	<input type="checkbox"/> OTHER		

SHUT-IN / TA :

<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> EQUIPMENT *	<input type="checkbox"/> SAFETY
<input type="checkbox"/> OTHER			

ABANDONED:

<input type="checkbox"/> MARKER	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> REHAB	<input type="checkbox"/> OTHER
---------------------------------	---------------------------------------	--------------------------------	--------------------------------

PRODUCTION:

<input checked="" type="checkbox"/> WELL SIGN	<input checked="" type="checkbox"/> HOUSEKEEPING	<input checked="" type="checkbox"/> EQUIPMENT *	<input type="checkbox"/> FACILITIES *
<input checked="" type="checkbox"/> METERING *	<input checked="" type="checkbox"/> POLLUTION CNTL	<input type="checkbox"/> PITS	<input type="checkbox"/> DISPOSAL
<input checked="" type="checkbox"/> SECURITY	<input checked="" type="checkbox"/> SAFETY	<input type="checkbox"/> OTHER	

GAS DISPOSITION:

<input type="checkbox"/> VENTED/FLARED	<input type="checkbox"/> SOLD	<input type="checkbox"/> LEASE USE
--	-------------------------------	------------------------------------

LEGEND: Y = YES/SATISFACTORY N = NO/UNSATISFACTORY A = NOT APPLICABLE

*FACILITIES INSPECTED:
WELLHEAD, LEASE EQUIPMENT

REMARKS:
EVERYTHING IS OK.

ACTION:

INSPECTOR: CHIP HUTCHINSON

DATE: 03/30/88

Delaware

PAGE 1

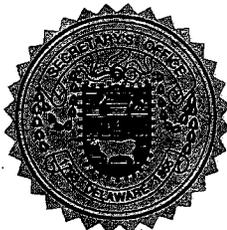
The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"SAMEDAN OIL CORPORATION", A DELAWARE CORPORATION,

WITH AND INTO "NOBLE ENERGY, INC." UNDER THE NAME OF "NOBLE ENERGY, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTIETH DAY OF DECEMBER, A.D. 2002, AT 4 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2002, AT 11:59 O'CLOCK P.M.



Harriet Smith Windsor

Harriet Smith Windsor, Secretary of State

0738126 8100M

AUTHENTICATION: 2171416

020798841

DATE: 12-26-02

CERTIFICATE OF OWNERSHIP AND MERGER

of

SAMEDAN OIL CORPORATION
(a Delaware corporation)

with and into

NOBLE ENERGY, INC.
(a Delaware corporation)

(UNDER SECTION 253 OF THE GENERAL
CORPORATION LAW OF THE STATE OF DELAWARE)

NOBLE ENERGY, INC., a Delaware corporation, hereby certifies that:

- (1) The name and state of incorporation or formation of each of the constituent corporations are:
 - (a) Samedan Oil Corporation, a Delaware corporation ("Samedan");
 - and
 - (b) Noble Energy, Inc., a Delaware corporation ("Noble").
- (2) Noble owns 100% of the issued and outstanding shares of the capital stock of Samedan.
- (3) Noble shall be the surviving entity in the merger.
- (4) Pursuant to Section 253 of the General Corporation Law of the State of Delaware, the Board of Directors of Noble adopted resolutions, by unanimous written consent, authorizing the merger of Samedan with and into Noble. A copy of such resolutions, adopted by the Board of Directors of Noble as of December 10, 2002, is attached hereto as Exhibit A.
- (5) The Certificate of Incorporation of Noble shall be the Certificate of Incorporation of the surviving corporation.
- (6) The effective date of the merger shall be as of 11:59 p.m. EST, on December 31, 2002.
- (7) Anything herein or elsewhere to the contrary notwithstanding, this merger may be abandoned by the Board of Directors of Noble at any time prior to the date of filing the merger with the Secretary of State.

IN WITNESS WHEREOF, Noble has caused this certificate to be signed by the undersigned on the 17th day of December, 2002.

NOBLE ENERGY, INC., the surviving corporation

By: 
Charles D. Davidson
President

060132 003224 HOUSTON 236763.2

THOMPSON & KNIGHT

DEC. 20. 2002 11:59AM

TOTAL P.03

EXHIBIT A**Relating to the Merger of Samedan Oil Corporation with and into Noble Energy, Inc.**

WHEREAS, Samedan Oil Corporation, a Delaware corporation ("Samedan"), is a wholly-owned, direct subsidiary of Noble Energy, Inc., a Delaware corporation ("Noble"); and

WHEREAS, the Board of Directors of Noble (the "Board") has determined, in its best business judgment, that it would be in the best interest of Noble to merge Samedan with and into Noble (the "Merger"); and

WHEREAS, Noble would be the surviving entity in the Merger; and

WHEREAS, for federal income tax purposes, the parties intend that the Merger qualify as a reorganization within the meaning of Section 368(a) of the Internal Revenue Code of 1986, as amended (the "Code"), and/or as a tax-free liquidation under Section 332 of the Code;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Noble hereby approves the Merger; and further

RESOLVED, that Samedan shall be merged with and into Noble pursuant to the provisions of Section 253 of the Delaware General Corporation Law (the "DGCL"), and Noble shall be the surviving entity of the Merger; and further

RESOLVED, that in accordance with the DGCL, at midnight on December 31, 2002 (the "Effective Time"):

- (a) the separate existence of Samedan shall cease;
- (b) Noble and Samedan shall then and thereafter together comprise a single entity, which shall be Noble;
- (c) title to all real estate and other property and rights owned by Samedan shall be deemed to be owned by, and vested in, Noble without reversion or impairment; and
- (d) Noble shall assume all liabilities and obligations of Samedan; and further

RESOLVED, that at the Effective Time, each issued and outstanding share of the common stock, par value \$10.00 per share, of Samedan shall, by virtue of the Merger, be immediately cancelled and retired with no consideration to be paid therefor and all certificates representing such interests shall be cancelled; and further

060132 003224 HOUSTON 236763.2

RESOLVED, that after the Effective Time, each outstanding share of the common stock, par value \$3.333 per share, of Noble shall remain issued and outstanding; and further

RESOLVED, that the Board of Directors of Noble will serve as the Board of Directors of the surviving entity, and the Bylaws and Certificate of Incorporation of Noble shall serve as the Bylaws and Certificate of Incorporation of the surviving entity; and further

RESOLVED, that the proper officers of Noble are hereby authorized and empowered to take or cause to be taken all such further lawful action and to sign, execute, acknowledge, certify, deliver, accept, record and file all such further instruments in the name and on behalf of Noble as in their judgment shall be necessary, desirable or advisable in order to carry out the intent, and to accomplish the purposes, of the foregoing resolutions pursuant to the applicable provisions of the DGCL; and further

RESOLVED, that all lawful actions heretofore taken by the officers, counsel or representatives of Noble in connection with the subject of the foregoing resolutions be, and each hereby is, approved, ratified and confirmed in all respects as the act and deed of Noble.

060132 003224 HOUSTON 236763.2

CT CORPORATION

January 8, 2003

Colleen McFadden
Thompson & Knight
333 Clay Street, Suite 3300
Houston TX 77002-4499

Re: Order #: 5762125 SO
Customer Reference 1: 060132.003224
Customer Reference 2:

Dear Colleen McFadden:

In response to your request regarding the above referenced order, your filing(s) has been completed as indicated below:

Noble Energy, Inc. (DE)
Qualification
Utah
Filing Date:

Fax #832-397-8109

If you have any questions concerning this order, please contact:

Jayna C Nickell
Houston Corporate Team 2
Phone: (713) 759-0729
Email: Jayna_Nickell@cch-lis.com

Thank you for this opportunity to be of service.

50 West Broadway, 8th Floor
Salt Lake City, UT 84101
Tel. 801 364 5101
Fax 801 359 0388

CT CORPORATION

Sincerely, **Ms. Deanette Widmer**
Special Assistant
Secretary

Utah CT Representative 2
C T Corporation System (Utah)

50 West Broadway, 8th Floor
Salt Lake City, UT 84101
Tel. 801 364 5101
Fax 801 359 0388

A CCH LEGAL INFORMATION SERVICES COMPANY



State of Utah
DEPARTMENT OF COMMERCE
Division of Corporations & Commercial Code

File Number:

Check Here If	Non-Refundable Fee:
<input type="checkbox"/> Profit	\$50.00
<input type="checkbox"/> Nonprofit	\$20.00

\$125.00
EXPEDITE

Application for Authority to Conduct Affairs for a Foreign Corporation

Noble Energy, Inc.

Exact Corporate Name

RECEIVED
JAN 07 2003

Utah Div. Of Corp. & Comm. Code

- A corporation of the state of Delaware, incorporated 29 day of December 1969 (year)
- The corporations period of duration is perpetual (usually perpetual).
- The address of the corporation's principal office is:
350 Glenborough Drive, Suite 100 Houston Texas 77067
Street Address City State Zip
- The Registered Agent in Utah is: C T Corporation System Bank One Tower, 8th Floor
The street address of the registered office in Utah is: 50 West Broadway Salt Lake City, Utah 84101
Street Address City State Zip
- C T Corporation System agree to serve as a registered agent for the above-mentioned foreign corporation.
Signature of Registered Agent (Required) see above Howard I. Volk, Asst. Secretary
- The business purposes to be pursued in Utah are: Oil and Gas Company
- The corporation commenced or intends to commence business in Utah on: December 31, 2002
- The names and addresses of the corporation's officers and directors are:
Name Address City State Zip
President See Attached
Vice-President _____
Secretary _____
Treasurer _____
Director _____
Director _____
Director _____
- A certification of Good Standing/Existence from the State of Incorporation dated no earlier than ninety (90) days prior to filing with this office is attached to this application.
- If the name is not available in Utah the corporation shall use _____
(Please refer to (U.C.A. 16-10a-1506).)

Under penalties of perjury, I declare that this application for Certificate of Authority has been examined by me and is, to the best of my knowledge and belief, true, correct and complete.

BY: Robert D. Hays TITLE: Senior VP and Secretary DATE: 12/23/02
Corporate Officer

FREE! You may visit our Web Site to access this document and other information.

Mail In: S.M. Box 146705
Salt Lake City, UT 84114-6705
Walk In: 160 East 300 South, Main Floor
Corporation's Information Center: (801) 530-4849
Toll Free Number: (877) 526-3994 (Utah Residents)
Fax: (801) 530-6438
Web Site: <http://www.commerce.utah.gov>

Date: 01/07/2003
Receipt Number: 762634
Amount Paid: \$450.00

comment form: (Target) Contact
Revised: 02-21-01 ea

01-07-03P02:32 RCVD

**ATTACHMENT TO APPLICATION FOR AUTHORITY TO CONDUCT
AFFAIRS FOR A FOREIGN CORPORATION IN UTAH FOR
NOBLE ENERGY, INC.**

7. The names and addresses of the corporation's officers and directors are:

Name	Office/Title	Mailing Address
Michael A. Cawley	Director	350 Glenborough Drive, Suite 100 Houston, TX 77067
Edward F. Cox	Director	350 Glenborough Drive, Suite 100 Houston, TX 77067
James C. Day	Director	350 Glenborough Drive, Suite 100 Houston, TX 77067
Charles D. Davidson	Director	350 Glenborough Drive, Suite 100 Houston, TX 77067
Dale P. Jones	Director	350 Glenborough Drive, Suite 100 Houston, TX 77067
Bruce A. Smith	Director	350 Glenborough Drive, Suite 100 Houston, TX 77067
Kirby L. Hedrick	Director	350 Glenborough Drive, Suite 100 Houston, TX 77067
Charles D. Davidson	Chairman of the Board, President and CEO	350 Glenborough Drive, Suite 100 Houston, TX 77067
Susan M. Cunningham	Senior VP	350 Glenborough Drive, Suite 100 Houston, TX 77067
Albert D. Hoppe	Senior VP and Secretary	350 Glenborough Drive, Suite 100 Houston, TX 77067
James L. McElvany	Senior VP, CFO and Treasurer	350 Glenborough Drive, Suite 100 Houston, TX 77067
William A. Poillion, Jr.	Senior VP	350 Glenborough Drive, Suite 100 Houston, TX 77067
Robert K. Burleson	VP	350 Glenborough Drive, Suite 100 Houston, TX 77067

060132 003224 HOUSTON 239703.1

NO. 459 P. 14

THOMPSON & KNIGHT

JAN. 7. 2003 11:10AM

Name	Office/Title	Mailing Address
Alan R. Bullington	VP	350 Glenborough Drive, Suite 100 Houston, TX 77067
Richard A. Peneguy, Jr.	VP	350 Glenborough Drive, Suite 100 Houston, TX 77067
Ted A. Price	VP	350 Glenborough Drive, Suite 100 Houston, TX 77067
David L. Stover	VP	350 Glenborough Drive, Suite 100 Houston, TX 77067
Kenneth P. Wiley	VP	350 Glenborough Drive, Suite 100 Houston, TX 77067
Arnold J. Johnson	Assistant Secretary	350 Glenborough Drive, Suite 100 Houston, TX 77067
Kirk A. Moore	Assistant Secretary	350 Glenborough Drive, Suite 100 Houston, TX 77067
William R. McKown	Assistant Treasurer	350 Glenborough Drive, Suite 100 Houston, TX 77067

060132 003224 HOUSTON 239703.1

NO. 453 P. 15

THOMPSON & KNIGHT

JAN. 7. 2003 11:10AM

Delaware

PAGE 1

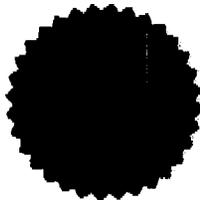
The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "NOBLE ENERGY, INC." IS DULY INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL CORPORATE EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE SIXTH DAY OF JANUARY, A.D. 2003.

AND I DO HEREBY FURTHER CERTIFY THAT THE SAID "NOBLE ENERGY, INC." WAS INCORPORATED ON THE TWENTY-NINTH DAY OF DECEMBER, A.D. 1969.

AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL REPORTS HAVE BEEN FILED TO DATE.

AND I DO HEREBY FURTHER CERTIFY THAT THE FRANCHISE TAXES HAVE BEEN PAID TO DATE.



Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 2186055

DATE: 01-06-03

0738126 8300

030006092

STATE OF UTAH DEPARTMENT OF COMMERCE REGISTRATION NOBLE ENERGY, INC.	REFERENCE NUMBER(S), CLASSIFICATION(S) & DETAIL(S) Corporation - Foreign - Profit 5250317-0143
EFFECTIVE 01/07/2003	EXPIRATION *RENEWAL

CT CORPORATION SYSTEM
 NOBLE ENERGY, INC.
 50 W BROADWAY 8TH FL
 SLC UT 84101-2006

STATE OF UTAH
DEPARTMENT OF COMMERCE
DIVISION OF CORPORATIONS & COMMERCIAL CODE
REGISTRATION



EFFECTIVE DATE: 01/07/2003
EXPIRATION DATE: *RENEWAL
ISSUED TO: NOBLE ENERGY, INC.

REFERENCE NUMBER(S), CLASSIFICATION(S) & DETAIL(S)

5250317-0143 Corporation - Foreign - Profit

*RENEWAL

You will need to renew your registration each anniversary date of the effective date.
 Exceptions: DBAs and Business Trusts renew every three (3) years from the effective date.



United States Department of the Interior

Bureau of Land Management

New Mexico State Office

1474 Rodeo Road

P.O. Box 27115

Santa Fe, New Mexico 87502-0115

www.nm.blm.gov

January 14, 2003

IN REPLY REFER TO:

3104 (NM930MSena)

NM 0484

DECISION

Principal:	:	
Noble Energy, Inc.	:	BLM Bond No.: NM 0484
350 Glenborough Dr., #100	:	
Houston, TX 77067-3299	:	Surety Bond No.: 4149383
	:	
	:	Bond Type: Oil and Gas
Surety:	:	
Safeco Insurance Company	:	Amount of Bond: \$150,000.00
of America	:	
Safeco Plaza	:	Execution Date: October 7, 1980
Seattle, WA 98185	:	

Merger Recognized

Rider Accepted

On January 10, 2003, this office received evidence concerning the merger of Samedan Oil Corporation, a Delaware corporation, into **Noble Energy, Inc.**, a Delaware corporation, effective December 20, 2002,, the date the Secretary of State of the State of Delaware certified the merger.

A bond rider consents to change the principal from Samedan Oil Corporation to Noble Energy, Inc. It is accepted effective January 10, 2003, the date received.

Attached is a listing of leases obtained from our automated system. We have not abstracted the files to determine if the entity affected by the merger holds an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining neither record title nor operating rights interests. If our field offices require documentation for a change of operator, they will contact you.

BM bond number NM2585, issued by Safeco Insurance Company of America, number 5779477, is released.

BLM bond number NM2697 issued by Safeco Insurance Company of America, number 5895053, is released.

BLM bond number NM1483 issued by American Employers Insurance Company, unnumbered, is released.

The Bureau of Land Management has no record of bond number 5895055, 5779460 or 2063849. Therefore, we are unable to release these bonds.

Margo C. Sena
Land Law Examiner

Cc: American Employers Insurance Co.
All BLM State Offices
MMS – Data Management Div. MS 3113
P. O. Box 5860
Denver, Co 80217

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: NOBLE ENERGY, INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 12600 Northborough CITY Houston STATE TX ZIP 77067		7. UNIT or CA AGREEMENT NAME: SEE ATTACHED
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED LIST		8. WELL NAME and NUMBER: SEE ATTACHED
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER: SEE ATTACHED
COUNTY: San Juan		10. FIELD AND POOL, OR WILDCAT: SEE ATTACHED
STATE: UTAH		

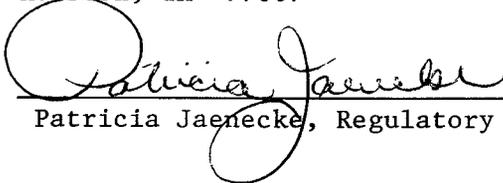
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

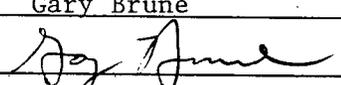
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

OPERATOR CHANGE EFFECTIVE JANUARY 1, 2003

FROM: SAMEDAN OIL CORPORATION
12600 Northborough, #250
Houston, TX 77067


Patricia Jaenecke, Regulatory Clerk II

RECEIVED
FEB 14 2003
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>Gary Brune</u>	TITLE <u>Asset Team Leader</u>
SIGNATURE 	DATE <u>12/16/02</u>

(This space for State use only)



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

In Reply Refer To:
3106
(UT-924)

March 20, 2003

Memorandum

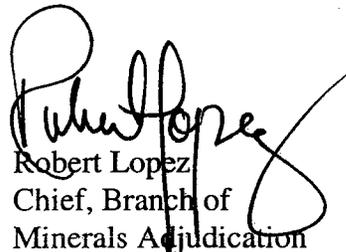
To: Moab Field Office

From: Chief, Branch of Minerals Adjudication

Subject: Merger Change Approval

Attached is an approved copy of the merger change, which is recognized by the Utah State Office. We have updated our records to reflect:

The merger change from Samedan Oil Corporation into Noble Energy Inc. is effective January 10, 2003. The BLM Bond Number is NM0484.



Robert Lopez
Chief, Branch of
Minerals Adjudication

Enclosure

1. New Mexico State Office Letter (3 pp)
2. List of leases (1 p)

cc: MMS, Reference Data Branch, MS3130, PO Box 5860, Denver CO 80217
State of Utah, DOGM, Attn: Jim Thompson (Ste. 1210), Box 145801, SLC UT 84114
Teresa Thompson (UT-922)
Joe Incardine (UT-921)

RECEIVED

MAR 24 2003

DIV. OF OIL, GAS & MINING



United States Department of the Interior

Bureau of Land Management
New Mexico State Office
1474 Rodeo Road
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.nm.blm.gov
January 14, 2003

RECEIVED

MAR 24 2003

DIV. OF OIL, GAS & MINING

IN REPLY REFER TO:
3104 (NM930MSena)
NM 0484
NMLC 0 45701

DECISION

Principal:
Noble Energy, Inc.
350 Glenborough Dr., #100
Houston, TX 77067-3299

:
: BLM Bond No.: NM 0484
:
: Surety Bond No.: 4149383
:
: Bond Type: Oil and Gas
:
: Amount of Bond: \$150,000.00
:
: Execution Date: October 7, 1980
:

Surety:
Safeco Insurance Company
of America
Safeco Plaza
Seattle, WA 98185

Merger Recognized Rider Accepted

On January 10, 2003, this office received evidence concerning the merger of Samedan Oil Corporation, a Delaware corporation, into Noble Energy, Inc., a Delaware corporation, effective December 20, 2002, the date the Secretary of State of the State of Delaware certified the merger.

A bond rider consents to change the principal from Samedan Oil Corporation to Noble Energy, Inc. It is accepted effective January 10, 2003, the date received.

Attached is a listing of leases obtained from our automated system. We have not abstracted the files to determine if the entity affected by the merger holds an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining neither record title nor operating rights interests. If our field offices require documentation for a change of operator, they will contact you.

Delaware

PAGE 1

The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"SAMEDAN OIL CORPORATION", A DELAWARE CORPORATION,

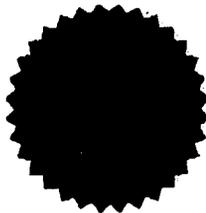
WITH AND INTO "NOBLE ENERGY, INC." UNDER THE NAME OF "NOBLE ENERGY, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTIETH DAY OF DECEMBER, A.D. 2002, AT 4 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2002, AT 11:59 O'CLOCK P.M.

RECEIVED

MAR 24 2003

DIV. OF OIL, GAS & MINING



Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State

0738126 8100M

AUTHENTICATION: 2171147

020798832

DATE: 12-26-02

5. If **NO**, the operator was contacted contacted on: _____

6. (R649-9-2)Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 03/20/2003

8. Federal and Indian Units:

The BLM or BIA has approved the successor of unit operator for wells listed on: N/A

9. Federal and Indian Communization Agreements ("CA"):

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 03/28/2003

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 03/28/2003

3. Bond information entered in RBDMS on: N/A

4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: NM 0484

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: N/A

FEE WELL(S) BOND VERIFICATION:

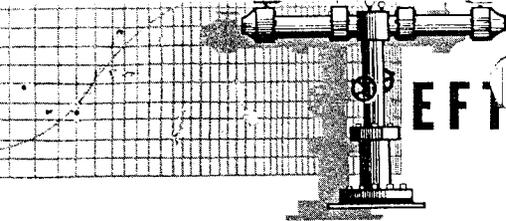
1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A

2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:



BHP • BU • PI • DD • GWT • RFS • GOR • FL • TS

TEFTELLER, INC.

reservoir engineering data

MIDLAND, TEXAS / FARMINGTON, NEW MEXICO
GRAND JUNCTION, COLORADO

P. O. Box 5247
Midland, Texas 79704
(915) 682-5574

Midland Fax (915) 682-5329
Farmington Fax (505) 325-1148

June 20, 1989

RECEIVED
JUN 26 1989

DIVISION OF
OIL, GAS & MINING

Samedan Oil Corporation
1616 Glenarm Pl, Suite 2550
Denver, CO 80202

Attention: Mr. Scott Steinke

Subject: Bottomhole Pressure Measurements
Four Wells
Mustang Field ^{UTAH}
San Juan County, New Mexico
Our File No. 2-20853-P

Dear Mr. Steinke:

Attached hereto are the results of bottomhole pressure measurements which were conducted in the above captioned field June 16, 1989.

The data presented are in tabular and graphical form.

It has been our pleasure to have conducted this service for you. If we may be of further assistance, please call us at any time.

Respectfully submitted,

TEFTELLER, INC.

Neil Tefteller
Neil Tefteller

NT/ct



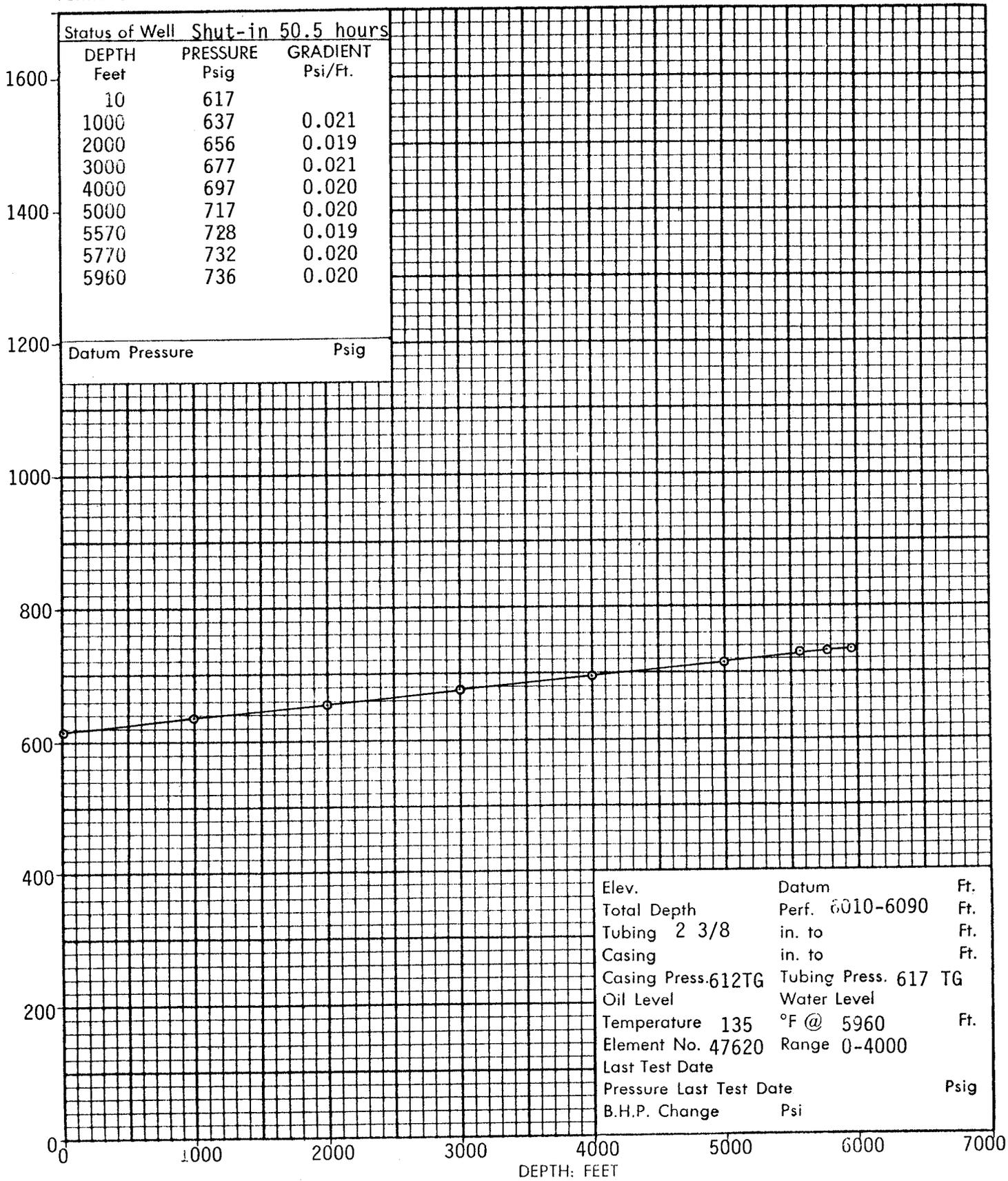
Page 3 of 4
 File 2-20853-P
API 43-037-31025
SEC. 27 36 S 23 E

Company SAMEDAN OIL CORPORATION Lease MUSTANG UNIT Well No. 27-32
 Field MUSTANG County SAN JUAN State UTAH
 Formation ISMAY Test Date JUNE 16, 1989

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
10	617	
1000	637	0.021
2000	656	0.019
3000	677	0.021
4000	697	0.020
5000	717	0.020
5570	728	0.019
5770	732	0.020
5960	736	0.020

Datum Pressure _____ Psig

PRESSURE POUNDS PER SQUARE INCH GAUGE



Elev.	Datum	Ft.
Total Depth	Perf. 6010-6090	Ft.
Tubing 2 3/8	in. to	Ft.
Casing	in. to	Ft.
Casing Press. 612 TG	Tubing Press. 617 TG	
Oil Level	Water Level	
Temperature 135	°F @ 5960	Ft.
Element No. 47620	Range 0-4000	
Last Test Date		
Pressure Last Test Date		Psig
B.H.P. Change	Psi	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
SEE ATTACHED

8. WELL NAME and NUMBER:
SEE ATTACHED

9. API NUMBER:
ATTACHED

10. FIELD AND POOL, OR WILDCAT:
SEE ATTACHED

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

2. NAME OF OPERATOR:
D. J. Simmons, Inc. *N2520*

3. ADDRESS OF OPERATOR: 1009 Ridgeway Pl. Ste. 200 Farmington, NM 87401 PHONE NUMBER: 505-326-3753

4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED LIST *2092* COUNTY: SAN JUAN

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

CHANGE OF OPERATOR

EFFECTIVE DATE OF TRANSFER: *8/1/03*

FROM: NOBLE ENERGY, INC.
N2345 12600 Northborough, Suite 200
Houston, TX 77067
(281) 872-3100

TO: D. J. Simmons, Inc.
1009 Ridgeway Pl. Ste. 200
Farmington, NM 87401

NAME (PLEASE PRINT) Gary C. Goldsmith

TITLE Attorney In Fact

SIGNATURE *Gary Goldsmith*

DATE 7/16/03

(This space for State use only)

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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

5. LEASE DESIGNATION AND SERIAL NUMBER:
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME:
SEE ATTACHED
8. WELL NAME and NUMBER:
SEE ATTACHED
9. API NUMBER:
ATTACHED
10. FIELD AND POOL, OR WILDCAT:
SEE ATTACHED

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

2. NAME OF OPERATOR:
NOBLE ENERGY, INC. (Former Operator) N2345

3. ADDRESS OF OPERATOR: 12600 Northborough CITY Houston STATE TX ZIP 77067 PHONE NUMBER: (281) 876-6150

4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED LIST COUNTY: SAN JUAN

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

CHANGE OF OPERATOR

EFFECTIVE DATE OF TRANSFER: 8/1/03

FROM: NOBLE ENERGY, INC.
12600 Northborough, Suite 250
Houston, TX 77067
(281) 872-3100

TO: D. J. Simmons, Inc.
1009 Ridgeway Pl. Ste. 200
Farmington, NM 87401

RECEIVED

AUG 14 2003

DIV OF OIL, GAS & MINING

NAME (PLEASE PRINT) Gary Brune TITLE Asset Team Leader
SIGNATURE *Gary Brune* DATE 6/13/03

(This space for State use only)

185c-59

<u>WELL NAME</u>	<u>API NUMBER</u>	<u>LOCATION</u>	<u>WELL TYPE</u>	<u>STATUS</u>	<u>LEASE TYPE</u>
MUSTANG UNIT 26-33	4303731086	36S 23E 26	OW	S	F
MUSTANG U 1	4303730776	36S 23E 27	GW	P	F
MUSTANG UNIT 3	4303730894	36S 23E 26	GW	P	F
MUSTANG UNIT 22-34	4303730943	36S 23E 22	OW	P	F
MUSTANG UNIT 26-23	4303731024	36S 23E 26	OW	P	F
MUSTANG UNIT 27-32	4303731025	36S 23E 27	OW	P	F
MUSTANG UNIT 27-21	4303731030	36S 23E 27	OW	P	F
MUSTANG UNIT 27-42	4303731325	36S 23E 27	OW	P	F
WILD STALLION UNIT 1	4303731426	36S 23E 33	GW	P	F
MUSTANG U 1	4303730776	36S 23E 27	GW	S	F
BONITO 41-6-85	4303731824	38S 25E 06	OW	P	F

OPERATOR CHANGE WORKSHEET

ROUTING	
1. GLH	
2. CDW	
3. FILE	

X Change of Operator (Well Sold)

Designation of Agent/Operator

Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:		8/1/2003
FROM: (Old Operator): N2345 - Noble Energy, Inc. 12600 Northborough Houston, TX 77067 Phone: 1-(281) 876-6150	TO: (New Operator): N2520-D. J. Simmons, Inc. 1009 Ridgeway Pl. Ste. 200 Farmington, NM 87401 Phone: 1-(505) 326-3752	

CA No. Unit: * See BELOW*****

WELL(S)								
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
MUSTANG UNIT								
MUSTANG U 1	27	360S	230E	4303730776	12112	Federal	GW	P
MUSTANG UNIT 27-21	27	360S	230E	4303731030	10774	Federal	OW	P
MUSTANG UNIT 26-23	26	360S	230E	4303731024	10774	Federal	OW	P
MUSTANG UNIT 26-33	26	360S	230E	4303731086	6505	Federal	OW	S
MUSTANG UNIT 27-42	27	360S	230E	4303731325	10774	Federal	OW	P
MUSTANG UNIT 27-32	27	360S	230E	4303731025	10774	Federal	OW	S
MUSTANG UNIT 3	26	360S	230E	4303730894	10774	Federal	GW	P
MUSTANG UNIT 22-34	22	360S	230E	4303730943	10774	Federal	OW	P

WILD STALLION UNIT								
WILD STALLION UNIT 1	33	360S	230E	4303731426	10888	Federal	GW	P

BONITO 41-6-85	06	380S	250E	4303731824	13517	Federal	OW	P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 8/14/2003
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 8/14/2003
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 9/30/2003
- Is the new operator registered in the State of Utah: YES Business Number: 1231074-0143

5. If **NO**, the operator was contacted contacted on: _____

6. (R649-9-2)Waste Management Plan has been received on: ****

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM applied for BIA

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: applied for

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 12/31/2003

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 12/31/2003

3. Bond information entered in RBDMS on: N/A

4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UTB000048

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: N/A

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A

2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155



IN REPLY REFER TO
3180
UT-922

August 19, 2004

DJ Simmons, Inc.
1009 Ridgeway Place, Suite 200
Farmington, New Mexico 87401

*43-037-31025 Mustang 27-32
T 365 R 23E Sec 27*

Re: Mustang Unit
San Juan County, Utah

Gentlemen:

On August 18, 2004, we received an indenture dated December 19, 2003, whereby Noble Energy, Inc. resigned as Unit Operator and DJ Simmons, Inc. was designated as Successor Unit Operator for the Mustang Unit, San Juan County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective August 19, 2004. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Mustang Unit Agreement.

Your Utah statewide oil and gas bond No. UTB000048 will be used to cover all operations within the Mustang Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Terry Catlin

Terry Catlin
Acting Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Moab (w/enclosure)
SITLA
Division of Oil, Gas & Mining
Dockets
File - Mustang Unit (w/enclosure)
Agr. Sec. Chron
Fluid Chron
Central Files

UT922:TAThompson:tt:8/19/04

RECEIVED

AUG 20 2004

DIV. OF OIL, GAS & MINING