

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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  
 Samedan Oil Corporation (303) 534-0677

3. ADDRESS OF OPERATOR  
 1616 Glenarm Pl, Suite 2550, Denver, Co. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface: 1940' FNL & 990' FEL (SENE)  
 At proposed prod. zone: ~~1940' FNL~~ 1750' FNL, 925' FEL

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

10. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 990'

16. NO. OF ACRES IN LEASE 320

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1,299'

19. PROPOSED DEPTH 6,475' *well*

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6,040' ungraded

22. APPROX. DATE WORK WILL START\* June 1, 1987

5. LEASE DESIGNATION AND SERIAL NO. U-46818

6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A

7. UNIT AGREEMENT NAME Mustang

8. FARM OR LEASE NAME Mustang Unit

9. WELL NO. 27-42

10. FIELD AND POOL, OR WILDCAT Mustang Flat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 27-36s-23e

12. COUNTY OR PARISH San Juan

13. STATE Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

- Casing, cementing, and BOP programs are on Pages 2-4.
- Request exception to Rule 302 because of topography. Exception is to the drilling window, not to a lease line nor to another well.
  - Orthodox well could be drilled at 1940' FNL & 860' FEL, but would result in 100+ feet of fill, hence need for exception.
  - Request permission to drill at 1940' FNL & 990' FEL 27-36s-23e SLBM, San Juan County, Utah.
  - See map on Page 17 for locations of existing and potential wells which could offset proposed exception.
  - Samedan is the owner of all lands within a 4,290' radius.
  - Samedan is the owner of all drilling units within 4,290'.

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 Brian Wood (505)-984-8120 TITLE Consultant DATE 5-13-87

(This space for Federal or State office use)  
 AP# 43-037-31325  
 PERMIT NO.

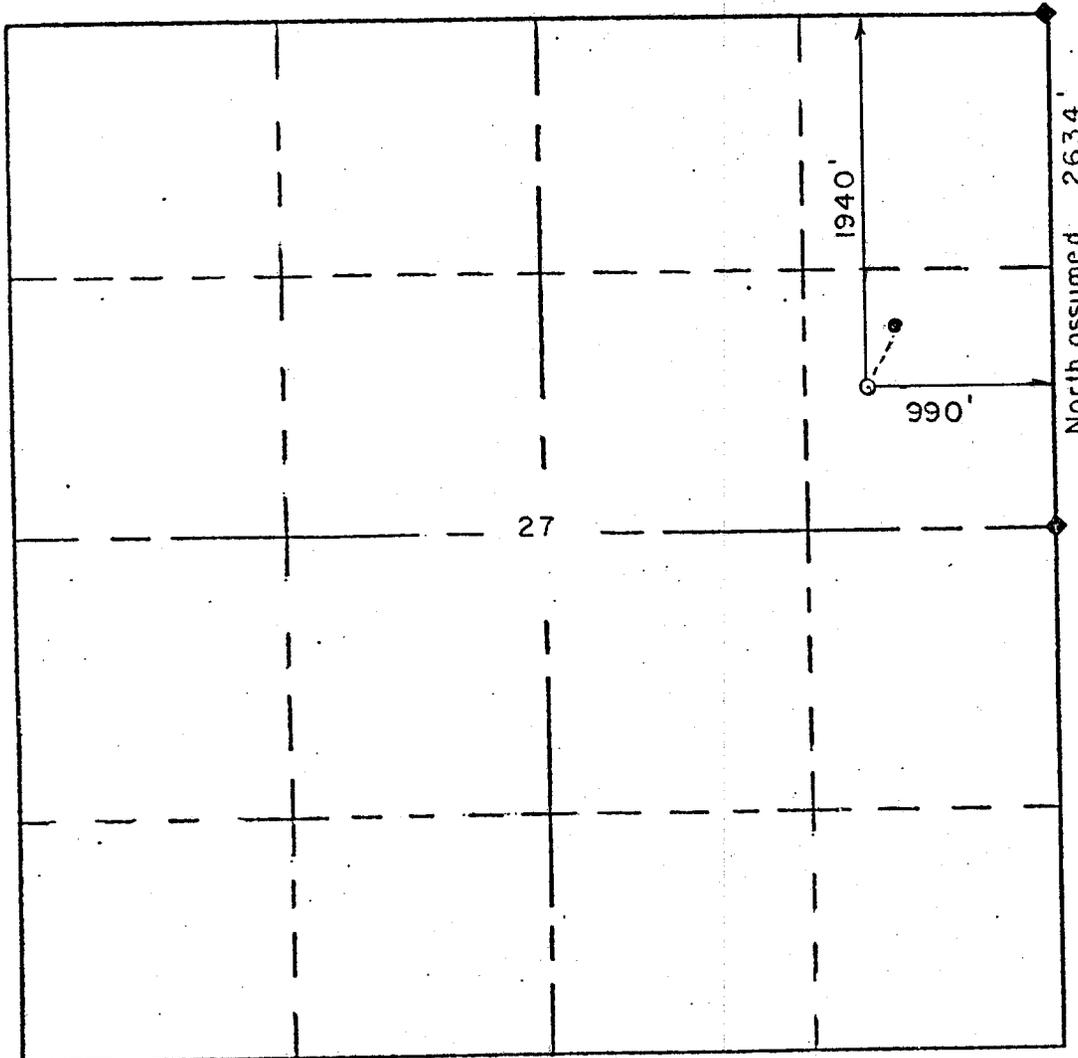
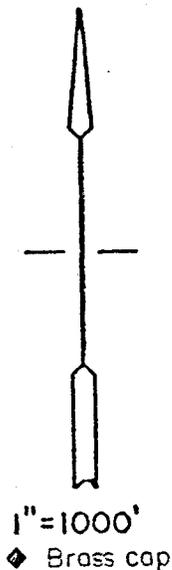
**RECEIVED**  
 MAY 18 1987

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

DATE: 6-2-87  
 BY: John R. Bay  
 WELL SPACING: (3), MDO (3), SJRA (1), UDOOM (2)

DIVISION OF  
 OIL, GAS & MINING  
 See Instructions On Reverse Side

WELL LOCATION PLAT

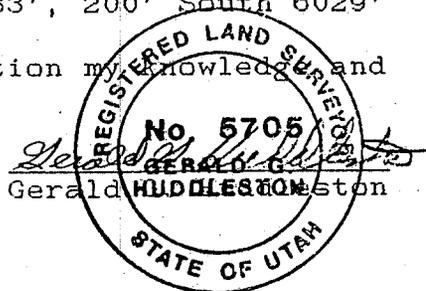


WELL LOCATION DESCRIPTION:

SAMEDAN OIL CORP., Mustang Unit 27-42  
1940' FN & 990' FE  
Section 27, T36S, R23E, SLM  
San Juan County, Utah  
6040' ground elevation  
Relation elevation: Mustang Unit#3 6081'  
References: 200' East 6033', 200' South 6029'

The above plat is correction my knowledge and belief.

13 May '87



Samedan Oil Corporation  
Mustang Unit 27-42  
1940' FNL & 990' FEL  
Sec. 27, T. 36 S., R. 23 E.  
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All lease operations will be conducted in full compliance with applicable laws, regulations (43 CFR 3100), Onshore Oil & Gas Order #1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. Samedan will furnish a copy of these conditions to its field representative to assure compliance.

### 8 Point Drilling Program

1. The estimated tops of important geologic markers are:

<u>Formation Name</u>	<u>Depth from GL</u>	<u>Depth from KB</u>	<u>Subsea Depth</u>
Dakota	00'	12'	+6040'
Morrison	50'	62'	+5990'
Entrada	1191'	1203'	+4849'
Navajo	1250'	1262'	+4790'
Chinle	1346'	1358'	+4694'
Moenkopi	2140'	2152'	+3900'
Ismay	6066'	6078'	- 26'
Desert Creek	6328'	6340'	- 288'
Akah	6398'	6410'	- 358'
Total Depth	6475'	6483'	- 435'

2. The estimated depths from KB at which water, oil, gas, or other mineral bearing zones are expected to be encountered are:

Possible Water Zone

Navajo: 1262'

Possible Oil Zones

Ismay: 6078'

Desert Creek: 6340'

Surface casing will be set 60' into the Moenkopi. Water bearing zones will

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be protected with weighted mud. All fresh water encountered during drilling will be recorded by depth, cased, and cemented. All oil and gas shows will be tested to determine commercial potential.

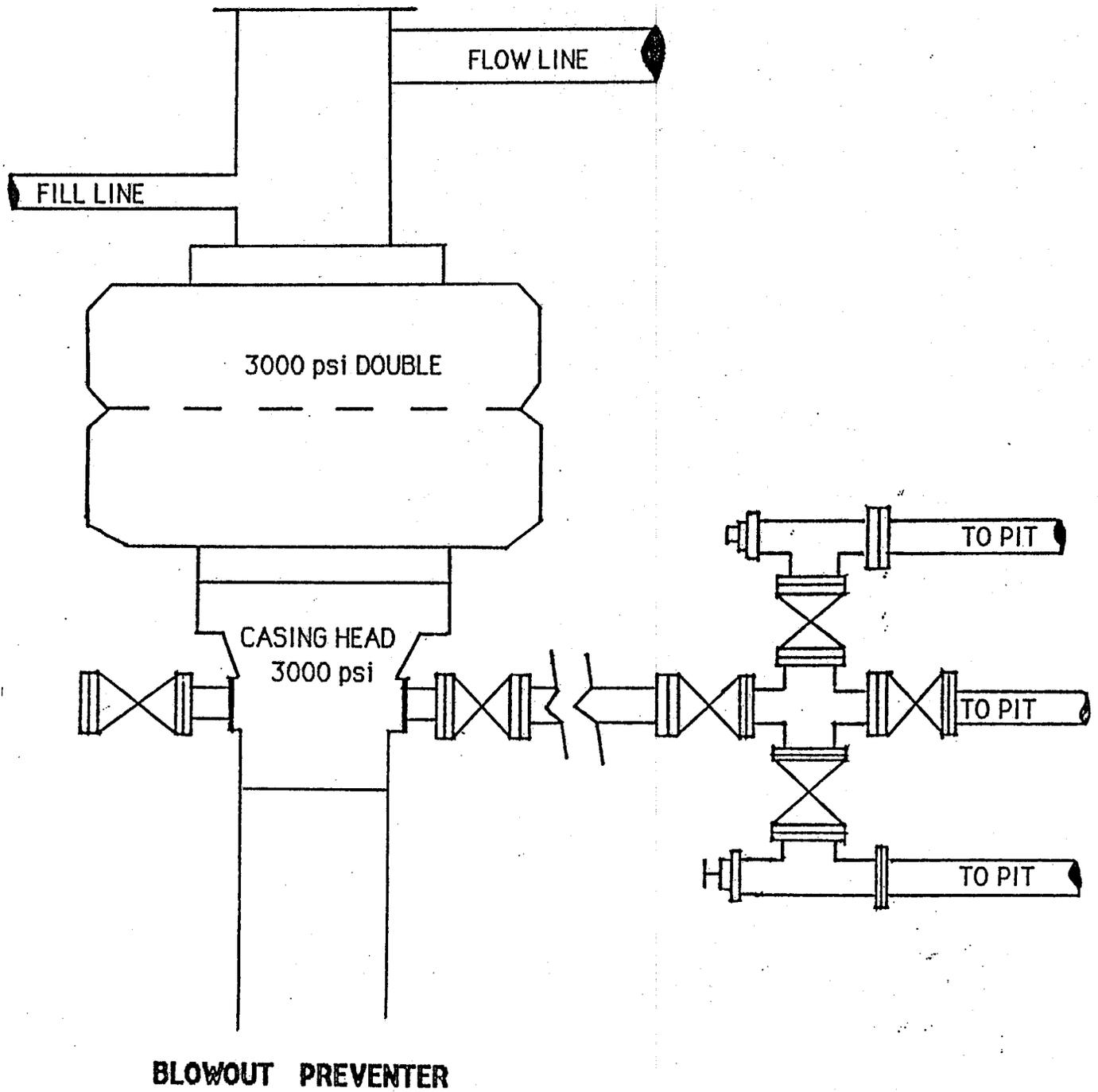
3. BOP systems will be consistent with API RP 53. A diagram of a typical 3000 psi BOP (actual model will not be known until bid is let) is on Page 3.

Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. BOP controls will be installed before drilling the surface casing plug, and will stay in use until the well is completed or abandoned. Preventers will be pressure tested before drilling casing cement plugs. All BOP mechanical and pressure tests will be recorded on the drillers log. Call Mike Wade at the Resource Area (801) 587-2141 or home (801) 587-2026 one day before pressure testing. If Mike is gone, call Steve Jones at the District Office (801) 259-6111.

BOPs will be inspected and operated at least daily to assure good mechanical working order. This inspection will be recorded on the daily drilling report.

4. The following may be inspected. Call Mike Wade at the Resource Area (801) 587-2141 or home (801) 587-2026 one day before the event, or on a dry hole as soon as possible. If unable to reach Mike Wade, call Steve Jones at the District Office (801) 259-6111.
  - The cementing and testing of surface casing.
  - If a dry hole, setting and testing of surface casing shoe plug.
  - If a depleted producer, setting and testing of plugs across the producing horizon and, if applicable, the surface casing shoe plug and/or annulus (casing to formation) squeeze jobs.

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1940' FNL & 990' FEL  
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The San Juan Resource Area [(801) 587-2141] will be notified 1 day before running casing strings and cement. The proposed casing and cementing programs are:

Hole Size	O.D.	Weight	Grade	Type	Age	Setting Depth (GL)
16"	13-3/8"	48#	H-40	ST&C	New	0'- 60'
12-1/4"	8-5/8"	24#	K-55	ST&C	New	0'-2200'
7-7/8"	5-1/2"	15.5#	K-55	ST&C	New	0'-6475' (TD)

Conductor Pipe: Cement to surface (60' to 0') with 50 sx

Surface Casing: Cement to surface (2200' to 0') with 800 sx "Neat" and "Light".

Production Casing: (6463' to 3000') with 500 sx. "Neat" will be used across producing zones and casing shoes. "Light" will be used for remainder.

5. The proposed mud program is:

Depth	Type	Weight (ppg)	Viscosity (sec/qt.)	F/L (cc)
0'-2200'	Water w/ Floc	8.3-8.7	26-29	NC
2200'-5000'	Water w/ Floc	8.3-8.4	26-29	NC
5000'-6475' (TD)	Poly plus G	8.8-9.2	35-50	10-15

6. Drill stem tests will be run in the Ismay, our primary objective, and Desert Creek if good shows are found. Two 60' cores are planned for the Ismay. No cores are planned for the Desert Creek. The following logs will be run:

DIL/GR: Total Depth to Surface

FDC/CNL/GR: Total Depth to ≈5000'

Computer Processed Log: Through Desert Creek and Ismay

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Whether the well is completed as a dry hole or producer, "Well Completion or Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well, or after completion of operations being performed, *per* 43 CFR 3164. Two copies of all logs, core descriptions & analyses, well test data, geologic summaries, sample descriptions, and all other data obtained during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. (If requested, sample cuttings, fluids, and/or gases will be submitted to the District Manager.)

7. The maximum expected bottom hole pressure is 2500 psi.  
No abnormal pressures, temperatures, or hydrogen sulfide are expected.
  
8. The anticipated spud date is June 1, 1987. It is expected it will take 20 days to drill the well and 10 days to complete the well.

Samedan, or its dirt contractor, will contact the Resource Area 48 hours before starting dirt work.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

The spud date will be phoned to the Resource Area, a minimum of 24 hours before spudding. A Sundry Notice (Form 3160-5), reporting the spud date and time, will be sent to the District Manager within 24 hours after spudding. If the spud is on a weekend or holiday, the Sundry will be sent on the following regular work day.

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Starting with the month in which operations begin, and continuing each month until the well is physically plugged and abandoned, a "Monthly Report of Operations" (Form 3160-6) will be sent to the District Manager.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual events will be promptly reported to the Resource Area *per* NTL-3A.

A Sundry Notice will be filed for prior approval of the District Manager if a replacement rig is planned for completion. All conditions of this approved plan apply to all operations of the replacement rig. In emergencies, verbal approval can be given by the District Manager.

If the well is successfully completed for production, then the District Manager will be notified. Written notification will be sent not later than 5 business days following the date on which the well is placed on production. The Resource Area will schedule a first production conference within 15 days after receipt of the first production notice.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Manager. This preliminary approval will not exceed 30 days or 50 MMcf of gas. Approval to vent/flare beyond this initial period will require the District Manager's approval *per* NTL-4A.

No well abandonment operations will begin without the prior approval of the District Manager. With a newly drilled dry hole, failure, or emergency, oral approval will be obtained from the District Manager. A Sundry Notice will be sent to the District Manager within 30 days following completion of the well for abandonment. The Sundry will note where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the reclamation required by the approved APD or abandonment notice has been completed to the satisfaction of the Area Manager.

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Once plugged, a regulation dry hole marker will be erected. The following information will be beaded on with a welding torch: Samedan Oil Corporation, Mustang Unit 27-42, SENE 27-36s-23e, U-46818.

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### 13 Point Surface Use Plan

#### 1. EXISTING ROADS (See PAGES 16 & 17)

From the junction of US 666 and US 191 in Monticello, Utah, go south 11.6 mi. on US 191.

Then turn left and go southeast 2.9 mi. on gravel county road #204 (*aka*, Alkali Road).

Then turn left and go southeast 3.5 mi., still on gravel county road #204.

Then turn right and go southwest 1.9 mi. on Samedan's gravel road to the Mustang Unit #1 well and gas plant.

Existing access are successively federal, county, and Samedan's Mustang Unit roads. The roads will be maintained to a standard at least equal to their present condition.

No improvements or new disturbances are planned. An Encroachment Permit has been approved by the San Juan County Road Dept.

#### 2. ROAD TO BE BUILT (See PAGE 17)

From the northwest corner of Samedan's gas plant fence, a new road 0.3 mi. in length will go south to the well. The road will be flat bladed with a 20' wide running surface (30' maximum disturbed width). There will be no culverts, turnouts, fence crossings, or major cuts or fills. Maximum grade will be 10%.

Particular care will be taken to avoid 2 archaeological sites marked with blue and white striped flagging. A BLM approved archaeologist, under contract to Samedan, must be present to monitor road construction.

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Surface disturbance and vehicle travel will be limited to the approved location and access. Any additional area needed will be approved in advance by the Area Manager. If access is used during wet winter weather, road surfacing may be required.

The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling the drill rig. If this deadline cannot be met, the Resource Area will be notified so temporary drainage control can be installed. Class III Road Standards control drainage through the use of topography, ditch turnouts, dips, outsloping, crowning, low water crossings, and culverts. Specific measures will be determined at a field inspection.

### 3. EXISTING WELLS (See PAGE 17)

There are no water or disposal wells within one mile. Samedan has the only producers (7) and injection well (Mustang Unit #1 injects gas) within a mile. All are in T. 36 S., R. 23 E. They are:

Mustang Unit #27-43 (2098' FSL & 609' FEL Sec. 27) is 1,299' away.  
Mustang Unit #27-32 (1628' FNL & 2340' FEL Sec. 27) is 1,385' away.  
Mustang Unit #3 (1675' FNL & 610' FWL Sec. 26) is 1,622' away.  
Mustang Unit #1 (281' FNL & 1026' FEL Sec. 27) is 1,660' away.  
Mustang Unit #27-21 (554' FNL & 1989' FWL Sec. 27) is 2,686' away.  
Mustang Unit #26-23 (2169' FSL & 1617' FWL Sec. 26) is 2,858' away.  
Mustang Unit #22-34 (1076' FSL & 2414' FEL Sec. 22) is 3,335' away.  
Mustang Unit #26-33 (1762' FSL & 1961' FEL Sec. 26) is 4,589' away.

### 4. PROPOSED PRODUCTION FACILITIES

The type and layout of the production facilities are not known now. A

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Sundry Notice will be submitted for approval before they are installed.

All permanent (on site for 6 or more months) surface facilities will be painted a flat, nonreflective, neutral color to match the trees or soil. Painting will be completed within 6 months of installation. Parts required to comply with OSHA colors will be excluded.

If a tank battery is built, it will be surrounded by a dike of sufficient capacity to contain 150% of the storage capacity of the battery. All loading lines will be placed inside the dike.

All site security guidelines in 43 CFR 3162.7 will be obeyed. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

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

Any gas meter run will be within 500' of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500' downstream of the meter run and any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well pad. Meters will be calibrated in place before delivery begins. Meter accuracy tests will be conducted monthly for the first 3 months on new meters, and at least quarterly thereafter. The Resource Area 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 sent to the Resource Area. All meters will conform with the API standards for liquid hydrocarbons and AGA standards for natural gas measurement.

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5. WATER SUPPLY (See PAGE 16)

Water will be trucked 10.6 mi. from Recapture Lake on BLM administered land in SWSW Sec. 7, T. 36 S., R. 23 E. Trucks will fill at the point where the abandoned part of US 191 enters the lake. An Application to Appropriate Water has been filed with the State of Utah Div. of Water Rights. Verbal approval was given by Norman Nielson of the San Juan Water Conservancy District on May 1, 1987. This is casual use.

6. CONSTRUCTION MATERIALS

Pad construction materials are native *in situ* soils on lease. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

7. WASTE DISPOSAL

The reserve pit will be lined with at least 10 mil plastic. Liner padding will be used as needed. More than half of the capacity will be in cut. It will be fenced on 3 sides with woven wire topped with barbed wire. The 4th side will be fenced once the rig moves off. The fence will be kept in good repair while the pit is drying.

All trash will be placed in a portable trash cage. When full, it will be hauled to an approved landfill in Colorado, or the Blanding city dump. The road and pad will be kept litter free.

Human waste will be disposed of in 20' deep ratholes or chemical toilets. The ratholes will be immediately filled when the trailers are removed.

Produced water will be confined to a lined pit for a period not to exceed 90 days after initial production. During the 90 day period an NTL-2B

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application will be submitted for the District Manager's approval of a permanent disposal method and site.

#### 8. ANCILLARY FACILITIES

There will be no formal camp, though two camper trailers may on site for the company man and tool pusher.

#### 9. WELL SITE LAYOUT

See PAGES 18-20 for depictions of the well pad, cross sections, cut and fill diagrams, reserve pit, burn pit, access road onto the pad, parking, living facilities, soil stockpile, and rig orientation.

The top 4" of soil will be removed from and stockpiled on the southwest and other sides. Topsoil along the access will be reserved in place.

#### 10. RECLAMATION

Immediately upon completion of drilling, all trash and debris will be collected from the pad and surrounding area and placed in the trash cage.

Samedan's dirt contractor will call the Resource Area 48 hours before starting reclamation that involves earth moving equipment, and upon completion of reclamation. The reserve pit must be completely dry before it is backfilled.

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.

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The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12" deep with the contour.

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.

*8 lb/ac Crested wheatgrass (Agropyron desertorum)*  
*2 lb/ac Fourwing saltbush (Atriplex canenscens)*  
*2 lb/ac Desert bitterbrush (Purshia glandulosa)*  
*1 lb/ac Yellow sweet clover*

After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed area. The access will be blocked to prevent vehicle access and water bars built as follows:

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

The reserve pit and that part of the pad not needed for production will be reclaimed as previously described. Enough topsoil will be kept to reclaim the remainder of the pad at a future date. The remaining topsoil stockpile will be seeded in place using the prescribed seed mix.

#### 11. SURFACE OWNER

The surface owner of the pad and the road requiring construction is the U.S. Government.

#### 12. OTHER INFORMATION

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The dirt contractor will be provided with an approved copy of the surface use plan.

There will be no change from the proposed drilling and/or workover plan without prior approval from the District Manager. A Sundry Notice will be filed for approval for all changes of plans and other operations *per* 43 CFR 3164.

Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified *per* 43 CFR 3162.2.

If subsurface cultural materials are exposed during construction, work in that spot will stop immediately and the Resource Area will be called. All people who are in the area will be informed by Samedan that they are subject to prosecution for disturbing archaeological sites or picking up artifacts, including arrowheads.

This permit will be valid for one year from the date of approval. After the permit expires, a new application will be filed for approval of any future operations.

The District Office's mailing address is P.O. Box 970, Moab, Utah 84532. The phone number is (801) 259-6111. Ask for Steve Jones. The Resource Area's mailing address is P.O. Box 7, Monticello, Utah 84535. The phone number is (801) 587-2141. Ask for Rich McClure for surface problems. Ask for Mike Wade for subsurface problems.

The nearest hospital is a 30 minute drive to Monticello, Utah. It is 3 blocks northwest of the intersection of US 666 and US 191. Phone number is (801) 587-2116. The nearest medically equipped helicopter is in Grand Junction, Colorado, at St. Mary's Hospital. Call (303) 244-2550.

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13. REPRESENTATION AND CERTIFICATION

For questions concerning the APD, please contact:

Brian Wood  
Permits West, Inc.  
37 Verano Loop  
Santa Fe, NM 87505  
(505) 984-8120

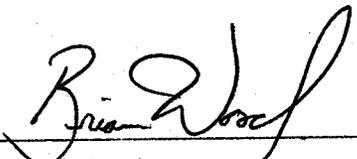
The field representative for Samedan Oil Corporation is:

Gary Brune, Division Production Superintendent  
Samedan Oil Corporation  
1616 Glenarm Pl., Suite 2550  
Denver, Co. 80202  
(303) 534-0677

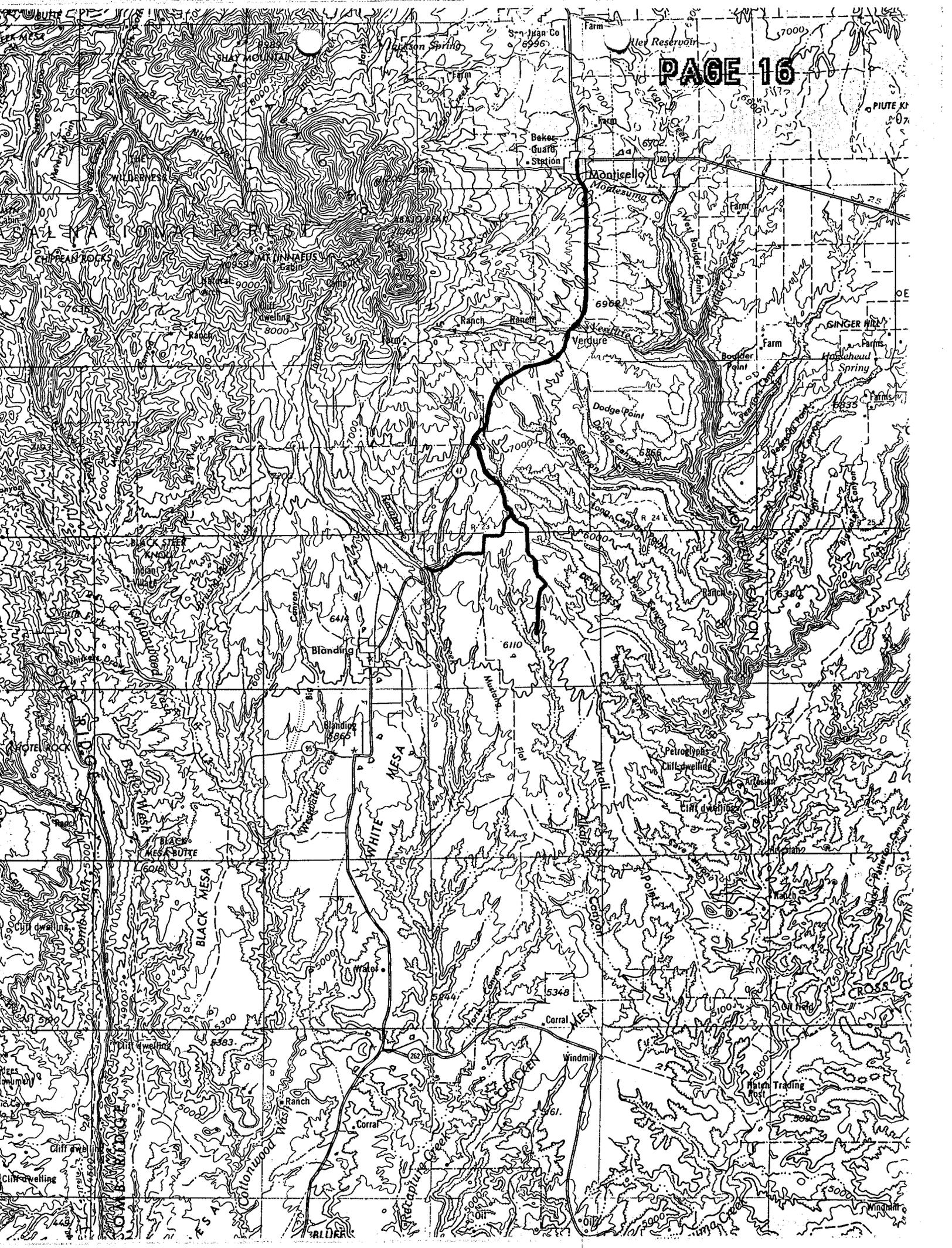
Home: (303) 779-5194

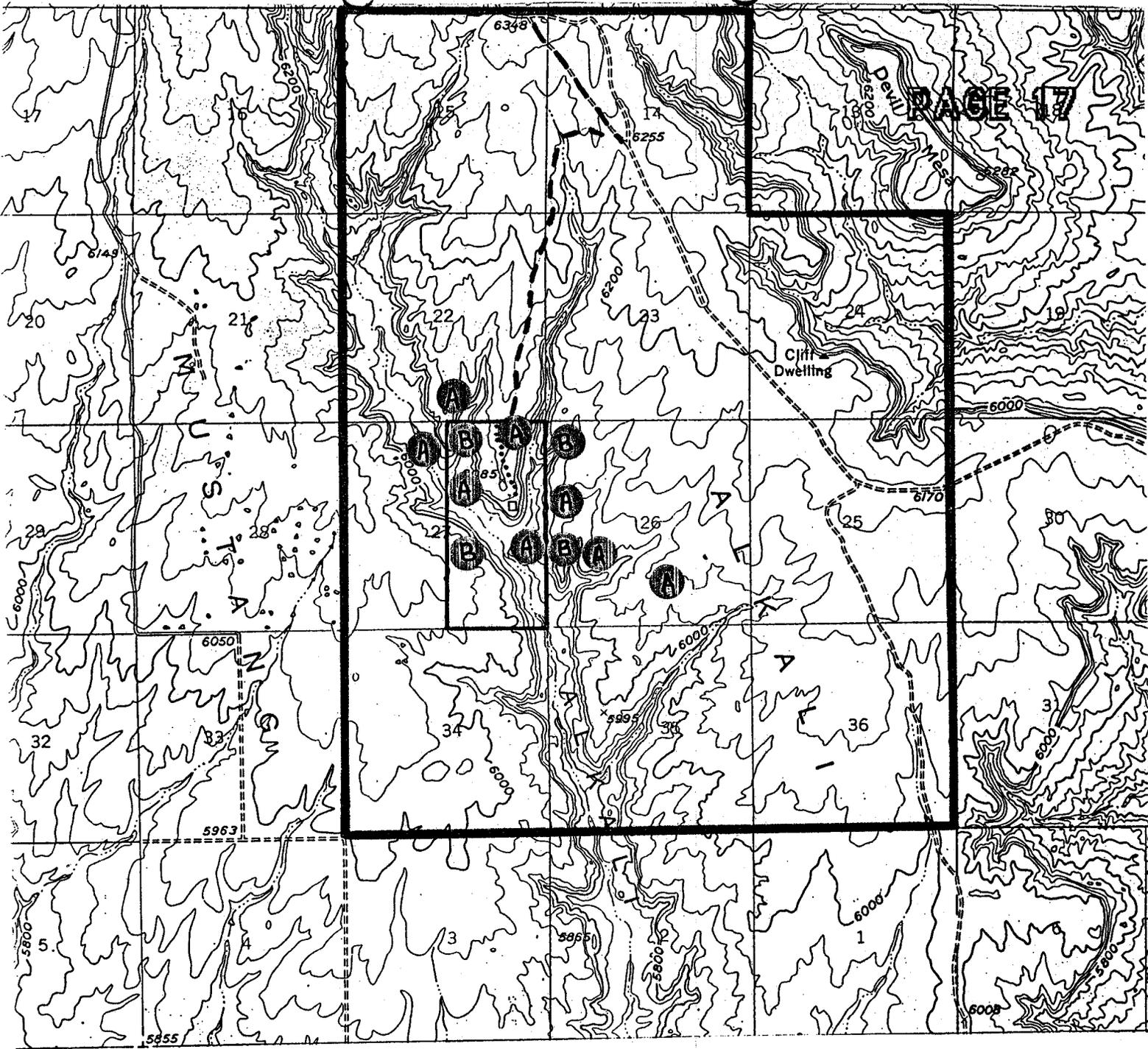
CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Samedan Oil Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

  
\_\_\_\_\_  
Brian Wood  
Consultant for Samedan Oil Corporation

May 13, 1987



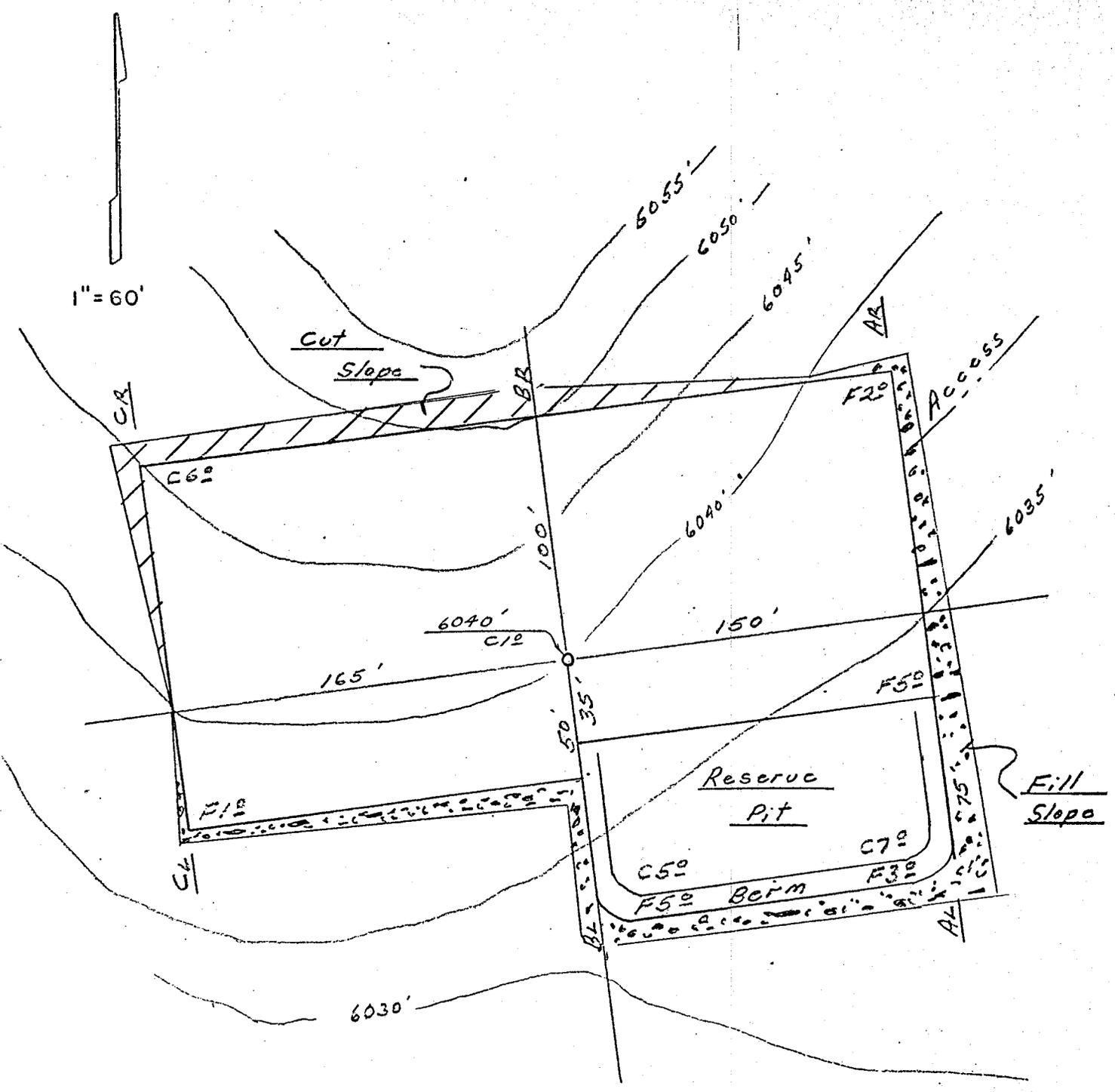
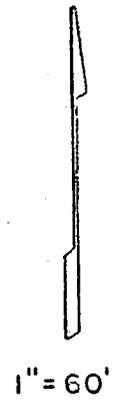


UNIT BOUNDARY   
EXISTING ROAD:   
EXISTING WELL:   
POTENTIAL OFFSETS: 

LEASE BOUNDARY:   
NEW ROAD:   
NEW WELL: 

WELL PAD PLAN VIEW

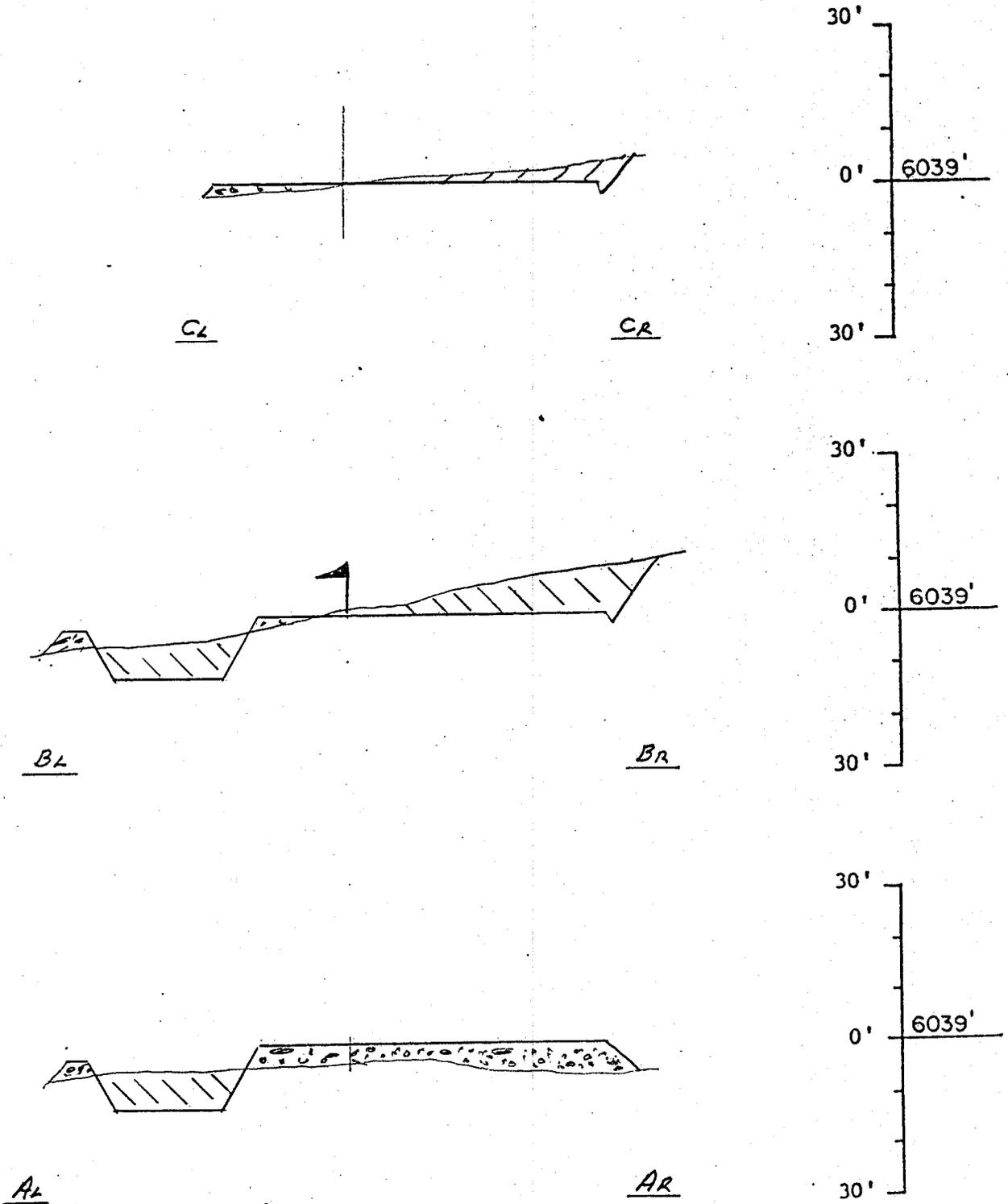
Well Mustang Unit 27-42



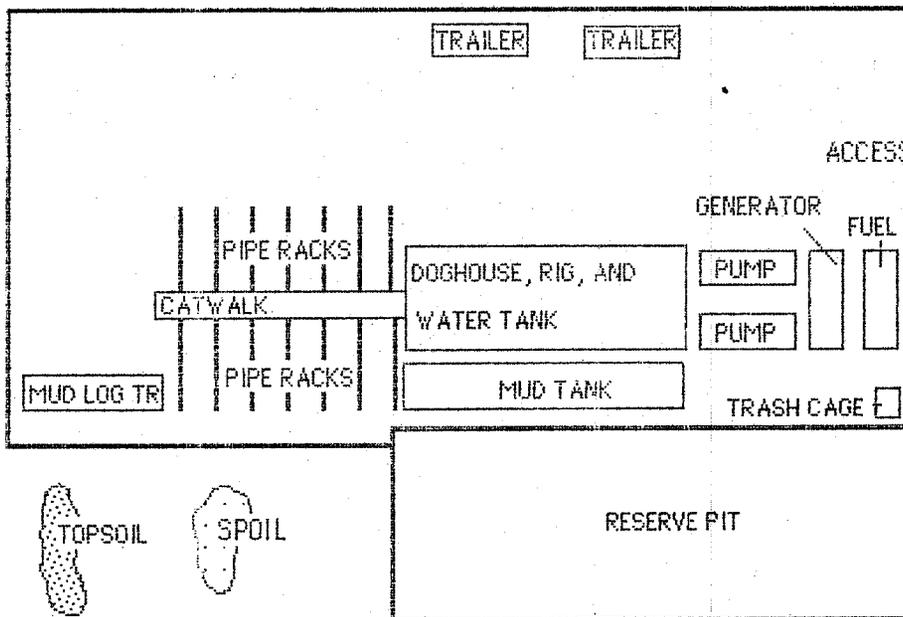
Mustang Unit 27-42

Cut   
Fill 

Scales: 1" = 60' H.  
1" = 30' V.



Samedan Oil Corporation  
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1940' FNL & 990' FEL  
Sec. 27, T. 36 S., R. 23 E.  
San Juan County, Utah



↑  
N  
O  
R  
T  
H

SAMEDAN OIL CORPORATION  
SUITE 2550  
1616 GLENARM PLACE  
DENVER, COLORADO 80202  
303-534-0677  
OMNIFAX 303-893-2675

May 8, 1987

Department of the Interior  
Bureau of Land Management  
P.O. Box 7  
Monticello, UT 84535

RE: Lease U-46818  
Designation of Agent

Gentlemen:

You are hereby advised that Permits West, Inc. of Santa Fe, NM has been retained to represent Samedan Oil Corporation to prepare and submit, in its behalf, drilling applications, sundry notice, and completion report forms relating to said drilling plans or surface use plans as assigned by the company.

This responsibility is conferred for the captioned lease, and may be used as reference for drilling other leases of record held by, or under assignment to, Samedan Oil Corporation.

Sincerely,

SAMEDAN OIL CORPORATION



Gary L. Brune  
Division Production Superintendent

GLB:mf

✓ cc: Mr. Brian Wood  
C/O Ramada Inn  
666 South Broadway  
Cortez, CO 81321

060401

OPERATOR Skimmed Oil Corp DATE 5-21-87

WELL NAME Mustang Unit 27-42

SEC SE NB 27 T 36 S R 23E COUNTY San Juan

43-037-31325  
API NUMBER

Ind.  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

Unit well - P.O.D. approved 6/1/87

Need water permit

APPROVAL LETTER:

SPACING:

203

Mustang  
UNIT

302

CAUSE NO. & DATE

302.1

STIPULATIONS:

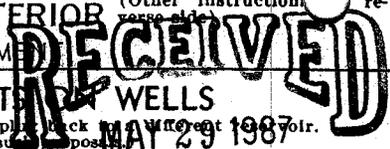
1- Water

2- Because of the proximity of the proposed well to a high pressured gas injectors in the Mustang Unit, the operator is required to increase the working pressure of BOP equipment to 5000 psi. The casing program shall be reviewed and revised as necessary to accomodate the higher pressures.

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 a well in 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 <b>Mustang</b>	
2. NAME OF OPERATOR <b>Samedan Oil Corporation</b>		8. FARM OR LEASE NAME <b>Mustang Unit</b>	
3. ADDRESS OF OPERATOR <b>1616 Glenarm Place, Suite 2550, Denver, Co. 80202</b>		9. WELL NO. <b>27-42</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>Surface: 1940' FNL &amp; 990' FEL Bottom: 1750' FNL &amp; 925' FEL</b>		10. FIELD AND POOL, OR WILDCAT <b>Mustang Flat</b>	
14. PERMIT NO. <b>43-037-31325</b>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>27-36s-23e SLBM</b>	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>6,040 ungraded</b>		12. COUNTY OR PARISH <b>San Juan</b>	13. STATE <b>Utah</b>

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.)\*

**Wish to amend APD drilling program. No change in surface location or use.**

**Well will be directionally drilled due to topographic (see APD) and reservoir engineering considerations. As before, well is an exception. Samedan is owner of all lands within a minimum 4,290' radius of any point along the intended well bore. Closest producing well (Samedan's Mustang Unit #27-32) is 1,420' from bottom hole location. Well will be kicked off at 5,123' TVD at a 2°/100' rate (maximum angle will be 15°) and displaced 200.8 feet North 18° 53' East. See attachment for more details.**

**Depending on conditions encountered while spudding, conductor pipe may be changed from 13-3/8" O.D. set at 60', to 16" O.D. set at 80'.**

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

SIGNED *Brune* TITLE **Consultant** DATE 5-26-87

(This space for Federal or State office use)

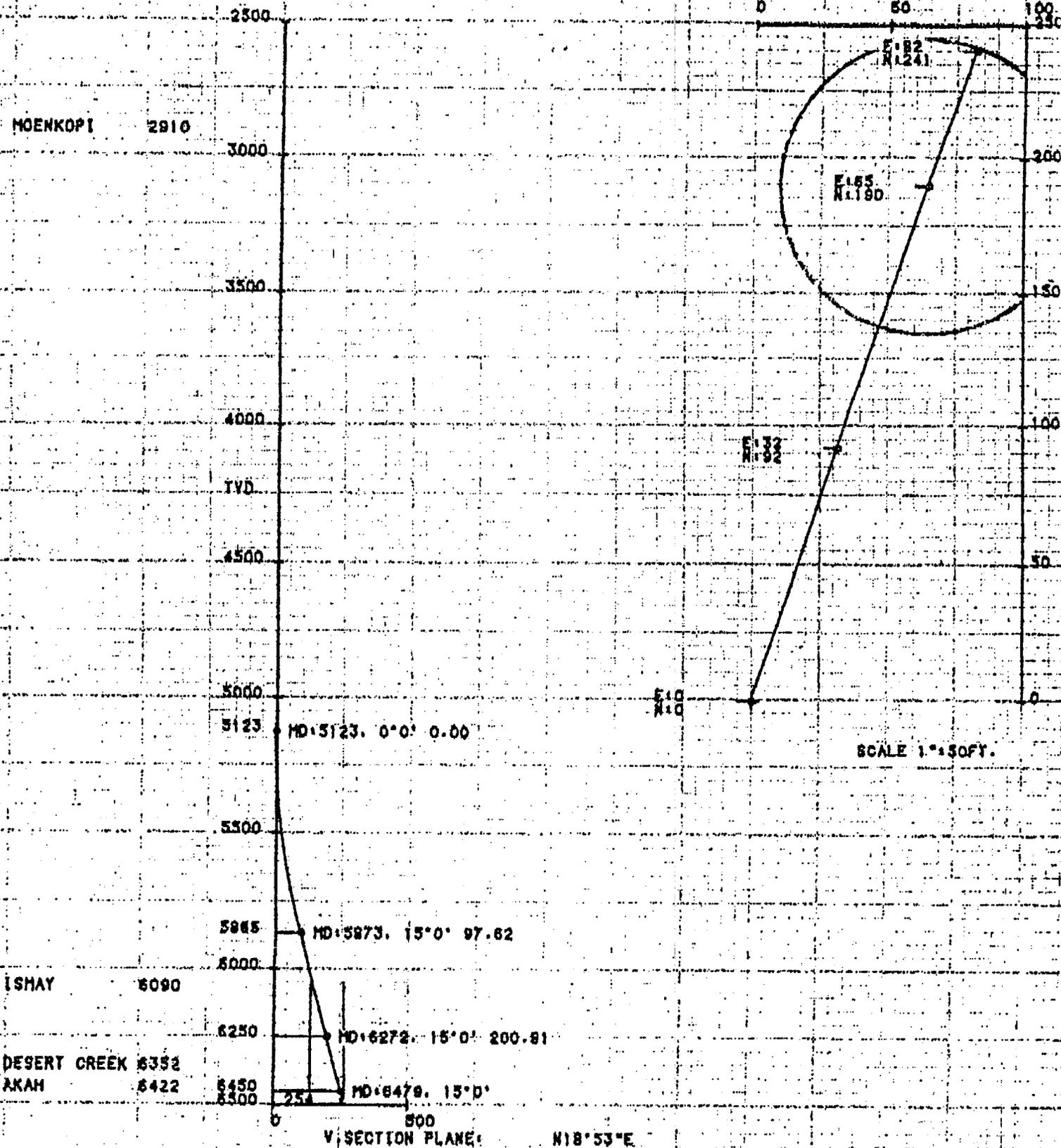
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:  
**cc: Brune (3), MDO (3), SJRA (1), UDO0M (2)**

**Federal approval of this action is required before commencing operations.**

\*See Instructions on Reverse Side

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

DATE: 6-1-87  
BY: *John K. ...*



SCALE 1"=500FT.

**SAMEDAN OIL CORPORATION**  
 MUSTANG UNIT 27-42  
 SAN JUAN COUNTY, UTAH

COMPANY: SAMEDAN OIL CORP UT ACCOUNT # N0185 SUSPENSE DATE: \_\_\_\_\_

WELL NAME: MUSTANG UNIT 27-42

API #: 4303731325

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: GARY BRUWE

SEC, TWP, RNG: 27 36S 23E

CONTACT TELEPHONE NO.: 1-303-534-0677

SUBJECT: NEED LOGS:  
DIL/GR  
FDC/CNL GR

(Use attachments if necessary)

RESULTS: WILL SEND LOGS

(Use attachments if necessary)

CONTACTED BY: UC

DATE: 1-11-87



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

June 2, 1987

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

Gentlemen:

Re: Mustang Unit 27-42 - SE NE Sec. 27, T. 36S, R. 23E  
(Surf.) 1940' FNL, 990' FEL; (BHL) 1750' FNL, 925' FEL  
San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule 203, Oil and Gas Conservation General Rules, 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 as required by Chapter 3, Title 73, Utah Code Annotated.
2. Because of the proximity of the proposed well to a high pressured gas injector in the Mustang Unit, the operator is required to increase the working pressure of BOP equipment to 5000 psi. The casing program shall be reviewed and revised as necessary to accomodate the higher pressures.

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. All well operators are responsible for sending an Entity Action Form to the Division of Oil, Gas and Mining within five working days of the time that a new well is spudded or a change in operations or interests necessitates a change in Entity status.
3. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.

Page 2  
Samedan Oil Corporation  
Mustang Unit 27-42  
June 2, 1987

4. 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) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
5. Compliance with the requirements and regulations of Rule 311.3, Associated Gas Flaring, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 533-6163.
7. 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 43-037-31325.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals  
D. R. Nielson  
8159T

**RECEIVED**  
JUN 08 1987

# FILING FOR WATER IN THE STATE OF UTAH

*file Delg.*  
**060930**  
Rec. by DLT  
Fee Paid \$ 15.00  
Platted # 22316  
Microfilmed \_\_\_\_\_  
Roll # \_\_\_\_\_

## APPLICATION TO APPROPRIATE WATER

**DIVISION OF OIL, GAS & MINING**

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

### TEMPORARY

**RECEIVED**  
MAY 13 1987  
WATER RIGHTS

WATER USER CLAIM NO. 09 - 1515

APPLICATION NO. T62486

1. PRIORITY OF RIGHT: May 6, 1987

FILING DATE: May 6, 1987

2. OWNER INFORMATION

Name: Samedan Oil Corporation  
c/o Permits West, Brian Wood  
Address: 37 Verano Loop, Santa Fe, NM 87505

Interest: 100 %

The land is not owned by the applicant(s), see explanatory.

3. QUANTITY OF WATER: 3.0 acre feet (Ac. Ft.)

4. SOURCE: Recapture Creek DRAINAGE: San Juan River

COUNTY: San Juan

POINT(S) OF DIVERSION:

(1) N. 1100 feet, E. 200 feet, from the SW Corner of Section 07,

Township 36 S, Range 23 E, SLB&M

Description of Diverting Works: Tank Trucks

COMMON DESCRIPTION: Recapture Res.-3mi.NE Blanding

5. NATURE AND PERIOD OF USE

Oil Exploration From June 1 to December 31.

6. PURPOSE AND EXTENT OF USE

Oil Exploratio: Water will be used for oil well drilling mud, dust control, compaction, etc.

7. PLACE OF USE

The water is used in all or parts of each of the following legal subdivisions.

TOWN RANGE SEC	North East Quarter				North West Quarter				South West Quarter				South East Quarter				
	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
36 S 23 E 27			X														

All locations in Salt Lake Base and Meridian

43-037-31325

#### EXPLANATORY

Land is public (federal) and administered by BLM. Monticello Utah Lake is administered by San Juan Water Conservancy District. Norman Nielson has approved this use.

Well Name: Mustang <sup>27</sup> 42, Located S 1750' W 925' from the NE Cor., Sec. 27, T36S, R23E.

### TEMPORARY

Appropriate

\*\*\*\*\*

The applicant hereby acknowledges he/they are a citizen(s) of the United States or intends to become such a citizen.

\*\*\*\*\*

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described.

\*\*\*\*\*

The undersigned hereby acknowledges that even though he/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained therein, at the time of filing, rests with the applicant(s).

\_\_\_\_\_  
Signature of Applicant

[Faint, mostly illegible text and stamps, including a large stamp that appears to read 'JENLOUVA' and another that reads 'THE STATE OF MONTANA']

STATE ENGINEER'S ENDORSEMENT

WATER RIGHT NUMBER: 09 - 1515

APPLICATION NO. T62486

1. May 6, 1987            Application received by MP.
  2. May 11, 1987        Application designated for APPROVAL by MP and SG.
  3. Comments:
- 
- 

Conditions:

This application is hereby APPROVED, dated June 5, 1987, subject to prior rights and this application will expire on June 5, 1988.

  
Robert L. Morgan, P.E.  
State Engineer

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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  
 Samedan Oil Corporation (303) 534-0677

3. ADDRESS OF OPERATOR  
 1616 Glenarm Pl, Suite 2550, Denver, Co. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface: 1940' FNL & 990' FEL (SENE)  
 At proposed prod. zone: Same

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

5. LEASE DESIGNATION AND SERIAL NO.  
 U-46818

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 N/A

7. UNIT AGREEMENT NAME  
 Mustang

8. FARM OR LEASE NAME  
 Mustang Unit

9. WELL NO.  
 27-42

10. FIELD AND POOL, OR WILDCAT  
 Mustang Flat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 27-36s-23e

12. COUNTY OR PARISH      13. STATE  
 San Juan      Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)      990'

16. NO. OF ACRES IN LEASE      320

17. NO. OF ACRES ASSIGNED TO THIS WELL      40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.      1,299'

19. PROPOSED DEPTH      6,475'

20. ROTARY OR CABLE TOOLS      Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)      6,040' ungraded

22. APPROX. DATE WORK WILL START\*      June 1, 1987

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

**RECEIVED**  
JUN 15 1987

DIVISION OF  
OIL, GAS & MINING

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 Ryan Wood TITLE Consultant DATE 5-13-87

(This space for Federal or State office use)

PERMIT NO. 43-037-31305 APPROVAL DATE JUN 12 1987

APPROVED BY /s/ Kenneth V. Rhea TITLE Acting DISTRICT MANAGER DATE JUN 12 1987

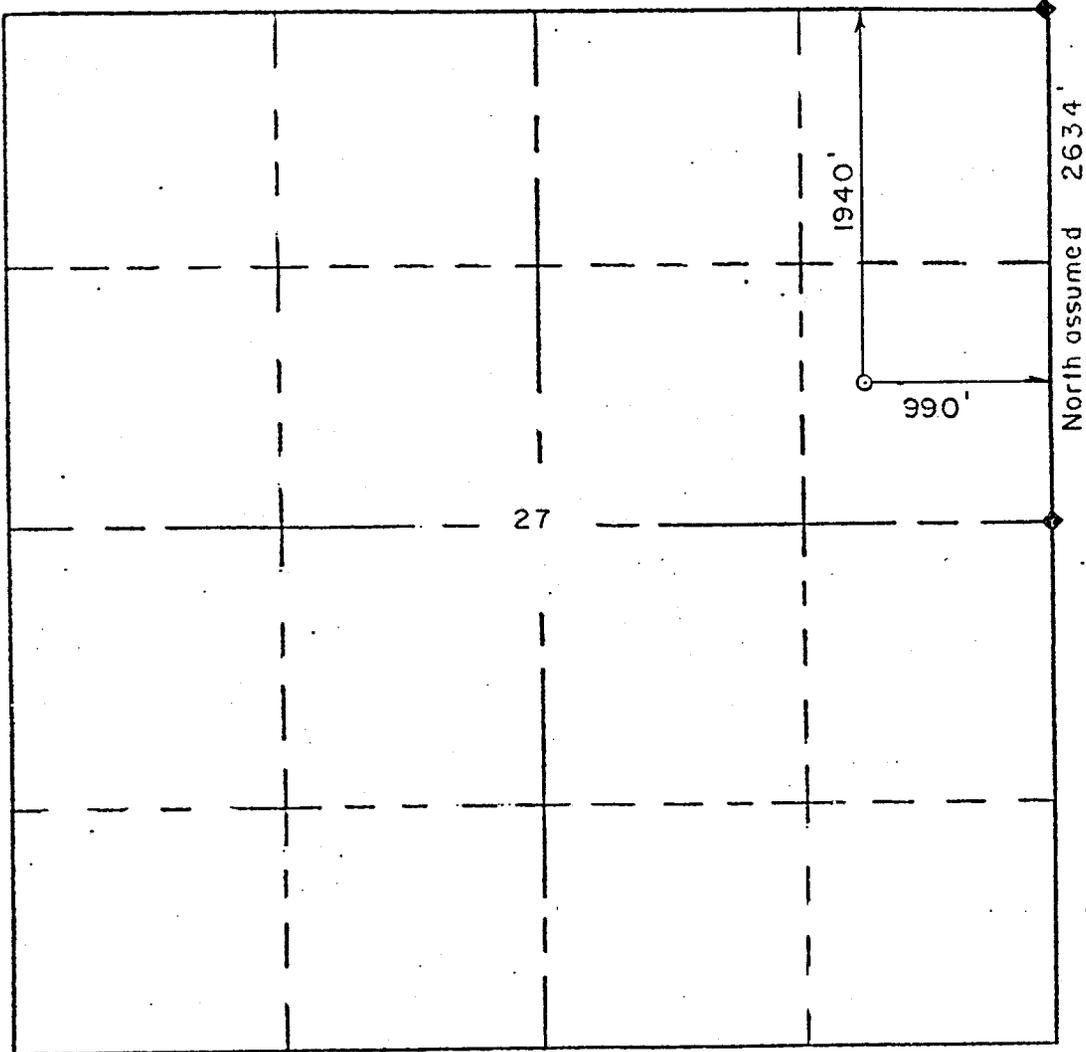
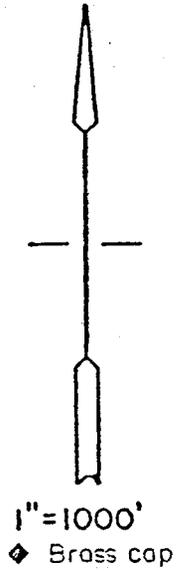
CONDITIONS OF APPROVAL, IF ANY:  
 FLARING OR VENTING OF GAS IS SUBJECT OF NTL 4-A DATED 1/1/80

CONDITIONS OF APPROVAL ATTACHED  
 cc: Brune (3), MDO (3), SJRA (1), UDOGM (2)

\*See Instructions On Reverse Side

Title 18 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.

WELL LOCATION PLAT

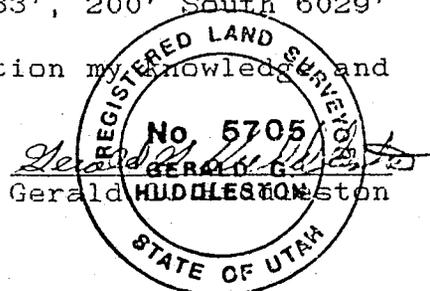


WELL LOCATION DESCRIPTION:

SAMEDAN OIL CORP., Mustang Unit 27-42  
1940' FN & 990' FE  
Section 27, T36S, R23E, SLM  
San Juan County, Utah  
6040' ground elevation  
Relation elevation: Mustang Unit#3 6081'  
References: 200' East 6033', 200' South 6029'

The above plat is correction my knowledge and belief.

13 May '87



Samedan Oil Corporation  
Well No. Mustang Unit 27-42  
Sec. 27, T. 36 S., R. 23 E.  
San Juan County, Utah  
Lease U-46818

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Samedan Oil Corporation is the bonded entity on this application. Liability will remain with the bonded party named above until we are formally notified by letter of the new bonded entity in reference to this Application for Permit to Drill.

A. DRILLING PROGRAM

9-5/8", 36#, K-55 surface casing must hold 2000 psi for 30 minutes during pressure test prior to drilling casing shoe. This test must be recorded in driller's log.

9-5/8" casing must be cemented to surface.

Pipe and blind rams will be pressure tested to 3500 psi prior to drilling casing shoe. If present, annular preventer will be pressure tested to 2500 psi.

Blowout preventer stack, closing unit and choke manifold will be consistent with standards set forth in API RP53.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Order 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to the field representative to insure compliance.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Office. If operations are to be suspended, prior approval of the District Office will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the District Office within a minimum of 24 hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within 24 hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

In accordance with Onshore Order No. 1 this well will be reported on Form 3160-6, "Monthly Report of Operations", starting with the month in which operations commence and continued each month until the well is plugged and abandoned. This report will be sent to the District Office, P.O. Box 970, Moab, Utah 84532.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Area Office in accordance with requirements of NTL-3A.

If a replacement rig is needed for completion operations, a Sundry Notice (Form 3160-5) to that effect will be filed for prior approval from the District Office, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergency situations, verbal approval to bring on a replacement rig will be approved through the District Office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, work-over, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Moab District Manager.

If the well is to be completed for production the Area Office is to be contacted in order to set up a pre-production conference. When the well is placed in a producing status the District Office is to be notified by telegram or other written communication within five working days.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

No well abandonment operations will be commenced without the prior approval of the District Office. In the case of newly-drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Office. A Subsequent Report of Abandonment (Form 3160-5) will be sent to the District Office within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Office, or the appropriate surface managing agency. Upon completion of approved plugging, a dry hole marker will be erected in accordance with 43 CFR 3162.6. The top of the marker will be closed or capped. The following minimum information will be permanently placed on the marker; "Fed" or "Ind", as applicable, "Lease Number", "Well number", location of well by 1/41/4 section, township, and range.

Your contact with the District Office is:

Steve Jones, Petroleum Engineer:

Office Phone: (801) 259-6111

Home Phone: (801) 259-7404

Lynn Jackson, Chief, Branch of Fluid Minerals:

Office Phone: (801) 259-6111

Home Phone: (801) 259-7990

Paul Brown, I&E Coordinator:

Office Phone: (801) 259-6111

Home Phone: (801) 259-7018

ADDRESS:

82 East Dogwood, P. O. Box 970  
Moab, Utah 84532

Your contact with the San Juan Resource Area Office is:

Rich McClure, Natural Resource Specialist

Office Phone: (801) 259-2141

Home Phone: (801) 259-2874

ADDRESS:

480 South First West, P. O. Box 7  
Monticello, Utah 84535

**062901**

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API #43-037-31325

NAME OF COMPANY: SAMADAN

WELL NAME: Mustang Unit 27-42

SECTION SE NE 27 TOWNSHIP 36S RANGE 23E COUNTY San Juan

DRILLING CONTRACTOR Exeter

RIG # 68

SPUDDED: DATE 6-20-87

TIME 12:00 AM

HOW Rotary

DRILLING WILL COMMENCE \_\_\_\_\_

REPORTED BY Scott Steinke

TELEPHONE # (303) 534-0677

DATE 6-22-87 SIGNED AS

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.)

<p>1. <b>OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/></p> <p>2. <b>NAME OF OPERATOR</b> Samedan Oil Corporation</p> <p>3. <b>ADDRESS OF OPERATOR</b> 1616 Glenarm Place, Suite 2550, Denver, Colorado 80202</p> <p>4. <b>LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Surface: 1940' FNL, 990' FEL Bottom: 1750' FNL, 925' FEL</p> <p>14. <b>PERMIT NO.</b> 43-037-31325</p>		<p>5. <b>LEASE DESIGNATION AND SERIAL NO.</b> U-46818 <i>Dug</i></p> <p>6. <b>IF INDIAN, ALLOTTEE OR TRIBE NAME</b> N/A. <b>062932</b></p> <p>7. <b>UNIT AGREEMENT NAME</b> Mustang</p> <p>8. <b>FARM OR LEASE NAME</b> Mustang Unit</p> <p>9. <b>WELL NO.</b> 27-42</p> <p>10. <b>FIELD AND POOL, OR WILDCAT</b> Mustang Flat</p> <p>11. <b>SEC., T., S., M., OR BLK. AND SUBVY OR AREA</b> 27-36S-23E-SLBM</p> <p>12. <b>COUNTY OR PARISH</b> 13. <b>STATE</b> San Juan Utah</p>
<p>15. <b>ELEVATIONS</b> (Show whether OF, AT, OR, etc.) 6040' Ungraded</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"/>	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) <u>Spudding Well</u>	
(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.)\*

6/19/87 7 A.M. MIRU Exeter Rig #68. RU Rotary Tools.  
6 A.M. Pick up rotating tools.  
8 P.M. Drill rat & mouse hole.

6/20/87 12 A.M. Spud well with 11" bit.

RECEIVED

JUN 24 1987

DIVISION OF  
OIL, GAS & MINING

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

SIGNED *Scott A. Stunk* TITLE Petroleum Engineer DATE 6/22/87

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

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  GAS WELL  OTHER

2. NAME OF OPERATOR  
Samedan Oil Corporation

3. ADDRESS OF OPERATOR  
1616 Glenarm Place, Suite 2550, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
Surface (Correction 6/26/87) 1955' FNL & 975' FEL  
Bottom: 1750 FNL, 925' FEL

14. PERMIT NO.  
43-037-31325

15. ELEVATIONS (Show whether DF, RT, OR, etc.)  
6040' Ungraded

5. LEASE DESIGNATION AND SERIAL NO.  
U-46818

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A

7. UNIT AGREEMENT NAME  
Mustang

8. FARM OR LEASE NAME  
Mustang Unit

9. WELL NO.  
27-42

10. FIELD AND POOL, OR WILDCAT  
Mustang Flat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
27-36S-23E-SLBM

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 type="checkbox"/>	(Other) <u>Monthly Report</u> <input checked="" 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.)\*

6/19/87 MIRU Exeter Rig #68.

6/20/87 12:00 A.M. Spud well.

6/21/87 Run 5 jts 16", 75#, K-55 conductor at 146'. Cement to surface with 150 sks.

6/22/87 Spot 300 sk cement plug at 180' to seal lost circulation zone in 12 1/4" hole.

6/24/87 Run 58 jts, 9 5/8", 36#, K-55 surface casing. Shoe at 2450' and DV tool at 770'. Cement thru shoe with 578 sks. Open DV. Circ out 7 bbls cement. Cement thru DV with 412 sks. Circ 60 bbls cement.

6/25/87 Cut off 9 5/8" casing. Weld on 11" x 9 5/8" 5000 PSI casinghead. Pressure test weld to 1400 PSI. Nipple up 5000 PSI BOP's to casinghead as follows: 11" blind rams, 11" pipe rams, 11" annular preventor, 4" flow line and 2" x 3 line choke manifold. Test casing to 2000 PSI for 30 min. Test casinghead, rams, annular preventor, flow line and manifold to 3500 PSI each for 10 min.

6/26-6/29/87 Drill 8 3/4" hole from 2450' to 5047'. Trip for bottom hole assembly change. Survey: 1° N 19° E @ 5033. Pick up new bit, mud motor and 1° bent sub.

6/30/87 Drilling directional hole at 5116'. Surveys: 1 3/4° N 16° E @ 5063' 3° N 19° E @ 5095'.

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

SIGNED Gary L. Brune TITLE Division Production Superintendent DATE 7/1/87

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY: ...

RECEIVED  
JUL 07 1987

\*See Instructions on Reverse Side

DIVISION OF  
OIL, GAS & MINING



***SUB-SURFACE  
DIRECTIONAL  
SURVEY***

- **SAMEDAN OIL CORPORATION**  
\_\_\_\_\_  
COMPANY

**MUSTANG UNIT 27-42**  
\_\_\_\_\_  
WELL NAME

**SAN JUAN COUNTY, UTAH**  
\_\_\_\_\_  
LOCATION

**JOB NUMBER**  
410-380

**TYPE OF SURVEY**  
SINGLE-SHOT

**DATE**  
13-JUL-87

**SURVEY BY**  
RIG CREWS

**OFFICE**  
ROCKY MOUNTAIN

EASTMAN CHRISTENSEN

RECORD OF SURVEY

FOR

```
* * * * *
*
* OPERATOR      : SAMEDAN OIL CORPORATION
*
* WELL NAME     : MUSTANG UNIT 27-42
*
* LOCATION      :
*
* JOB NUMBER    : .
*
* RIG           : EXETER 68
*
* DECLINATION   : 0.00 E
*
*               PLANE OF VERTICAL SECTION
*
*               DIRECTION : N 13 43 E
*
* * * * *
```

EC DISTRICT : ROCKY MOUNTAIN DIST.

PBHL : N 13 43 E

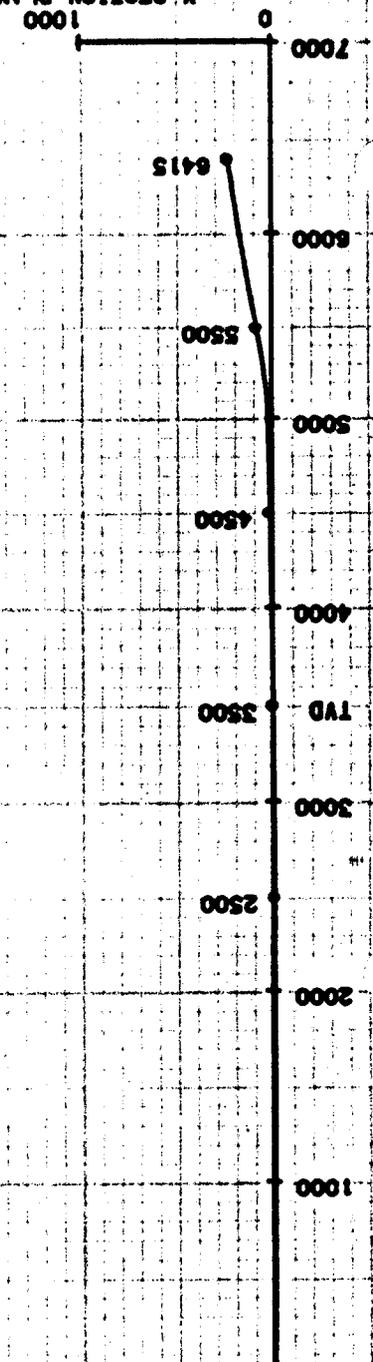
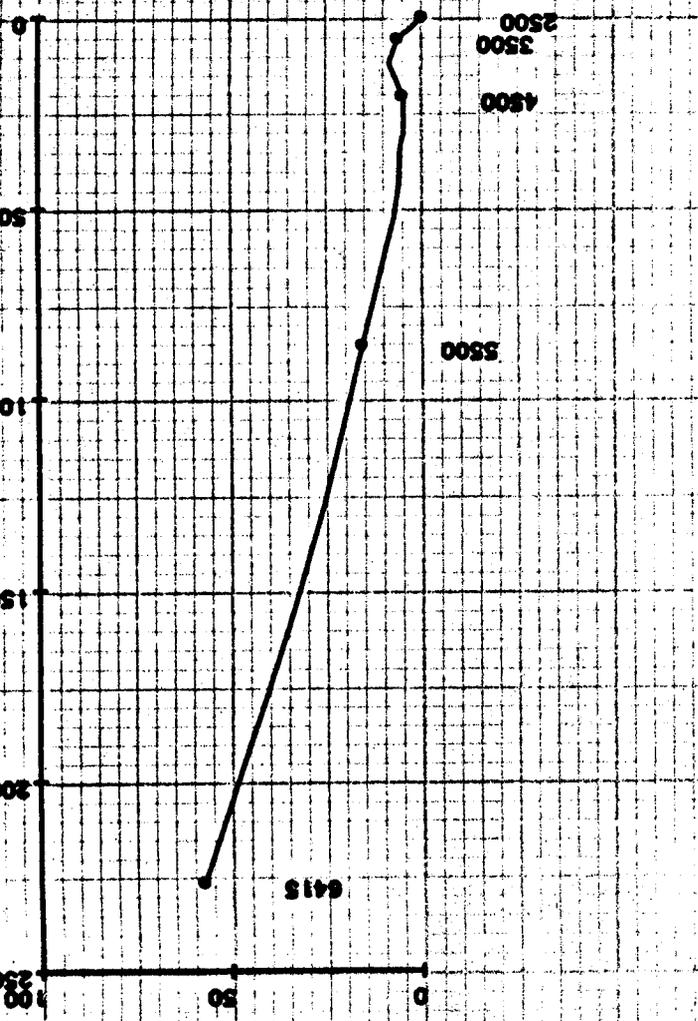
MEASURED DEPTH	DRIFT		COURSE LENGTH	TRUE VERTICAL DEPTH	VERTICAL SECTION	RECTANGULAR COORDINATES		CLOSURE		DOGLEG SEVERITY
	ANGLE D M	DIRECTION D M				DISTANCE	DIRECTION D M			
0.00	0 0	N 0	0 0 E	0.00	0.00	0.00 N	0.00 E	0.00	S 90 0 E	0.00
2500.00	0 0	N 0	0 0 E	2500.00	2500.00	0.00 N	0.00 E	0.00	S 90 0 E	0.00
3041.00	0 45	N 45	0 0 E	541.00	3040.98	3.03	2.51 N	2.51 E	3.54 N 45 0 E	0.14
3509.00	0 30	N 53	0 0 E	468.00	3508.96	7.20	5.86 N	6.36 E	8.65 N 47 22 E	0.06
3978.00	1 15	N 15	0 W	469.00	3977.90	13.92	12.24 N	8.56 E	14.94 N 34 58 E	0.5
4549.00	0 45	N 31	0 W	571.00	4548.81	21.89	21.39 N	4.68 E	21.89 N 12 21 E	0.10
5002.00	1 45	N 31	0 E	453.00	5001.70	31.02	30.79 N	4.68 E	31.15 N 8 39 E	0.34
5033.00	1 0	N 19	0 E	31.00	5032.69	31.75	31.46 N	4.99 E	31.86 N 9 1 E	2.58
5063.00	1 45	N 16	0 E	30.00	5062.68	32.47	32.15 N	5.21 E	32.57 N 9 12 E	2.51
5095.00	3 0	N 14	0 E	32.00	5094.65	33.80	33.43 N	5.55 E	33.89 N 9 26 E	3.91
5126.00	3 45	N 4	0 E	31.00	5125.60	35.61	35.23 N	5.84 E	35.71 N 9 25 E	3.07
5158.00	5 0	N 1	0 W	32.00	5157.50	38.00	37.67 N	5.90 E	38.13 N 8 54 E	4.08
5190.00	6 0	N 3	0 E	32.00	5189.35	40.99	40.74 N	5.96 E	41.17 N 8 19 E	3.34
5221.00	7 0	N 4	0 E	31.00	5220.15	44.44	44.24 N	6.17 E	44.67 N 7 56 E	3.25
5283.00	8 15	N 13	0 E	62.00	5281.60	52.63	52.37 N	7.39 E	52.89 N 8 2 E	2.78
5346.00	8 45	N 15	0 E	63.00	5343.91	61.94	61.40 N	9.64 E	62.16 N 8 55 E	0.92
5439.00	9 30	N 14	0 E	93.00	5435.73	76.68	75.68 N	13.33 E	76.85 N 9 59 E	0.82
5533.00	10 15	N 13	0 E	94.00	5528.34	92.81	91.36 N	17.09 E	92.94 N 10 36 E	0.82
5594.00	10 45	N 13	0 E	61.00	5588.32	103.92	102.19 N	19.59 E	104.05 N 10 51 E	0.1
5735.00	10 15	N 15	0 E	141.00	5726.96	129.61	127.12 N	25.81 E	129.71 N 11 29 E	0.44
5912.00	9 30	N 17	0 E	177.00	5901.33	159.94	156.30 N	34.18 E	159.99 N 12 20 E	0.47
6098.00	8 15	N 19	0 E	186.00	6095.10	188.56	183.59 N	43.04 E	188.57 N 13 12 E	0.69
6259.00	8 30	N 18	0 E	161.00	6244.39	211.93	205.83 N	50.49 E	211.93 N 13 47 E	0.18
6415.00	7 45	N 19	0 E	156.00	6398.82	233.90	226.73 N	57.48 E	233.91 N 14 14 E	0.49

CLOSURE - DISTANCE : 233.91  
DIRECTION : N 14 14 E

REPORT UNITS : Feet  
SURVEY CALCULATION METHOD : Radius of curvature

SURVEY RUN INFORMATION  
=====

NOTE: COORDINATES RELATIVE  
TO SLOT  
SCALE 1"=50FT.



TEFTELLER, INC.  
RESERVOIR ENGINEERING DATA  
MIDLAND, TEXAS

WELL : MUSTANG UNIT NO. 27-42

PAGE 1 OF 5

FIELD : MUSTANG UNIT

FILE 2-18846-BU&S

CHRONOLOGICAL PRESSURE AND PRODUCTION DATA

1987 DATE	STATUS OF WELL	TIME	ELAPSED TIME		LOG	T+ $\delta$ t $\delta$ t	WELLHEAD PRESSURE		BHP @	
			HRS.	MIN.			TBG	CSG	6211' PSIG	
8-10	Arrived on location, flowing Ran tandem instruments to 6211'	12:00								
		12:50					170 Pkr	800		
	Collected separator oil & gas samples for recombination	13:00							810	
		13:30							804	
		14:00							808	
		14:30							806	
		15:00							808	
		Shut-in for buildup	15:00	0	00					
			15:06	0	06		3.708			839
			15:12	0	12		3.407			852
			15:18	0	18		3.231			863
			15:24	0	24		3.106			873
	15:30		0	30		3.010			881	
	15:36		0	36		2.930			889	
	15:42		0	42		2.864			897	
	15:48		0	48		2.806			904	
	15:54		0	54		2.755			911	
	16:00		1	00		2.709			918	
	16:15		1	15		2.612			929	
	16:30	1	30		2.533			941		
	16:45	1	45		2.467			949		
	17:00	2	00		2.409			958		
17:30	2	30		2.312			972			
18:00	3	00		2.234			984			
18:30	3	30		2.167			997			
19:00	4	00		2.109			1007			
20:00	5	00		2.013			1026			
21:00	6	00		1.935			1040			
22:00	7	00		1.869			1055			
23:00	8	00		1.812			1069			
8-11		00:00	9	00		1.761		1084		
		01:00	10	00		1.717		1096		
		03:00	12	00		1.639		1119		
		05:00	14	00		1.574		1140		
		07:00	16	00		1.517		1161		
		09:00	18	00		1.468		1179		
	11:00	20	00		1.424		11916			
	13:00	22	00		1.384		1210			

TEFTELLER, INC.  
RESERVOIR ENGINEERING DATA  
MIDLAND, TEXAS

WELL : MUSTANG UNIT NO. 27-42

PAGE 2 OF 5

FIELD : MUSTANG UNIT

FILE 2-18846-BU

CHRONOLOGICAL PRESSURE AND PRODUCTION DATA

1987 DATE	STATUS OF WELL	TIME	ELAPSED TIME		LOG	$\frac{T+\delta t}{\delta t}$	WELLHEAD PRESSURE		BHP @ 6211' PSIG
			HRS.	MIN.			TBG	CSG	
8-11		15:00	24	00		1.348			1225
		17:00	26	00		1.315			1239
		19:00	28	00		1.284			1254
		21:00	30	00		1.256			1268
		23:00	32	00		1.229			1281
8-12		01:00	34	00		1.205			1293
		03:00	36	00		1.181			1306
		05:00	38	00		1.159			1317
		07:00	40	00		1.138			1329
		11:00	44	00		1.101			1351
		15:00	48	00		1.066			1372
		19:00	52	00		1.034			1393
		23:00	56	00		1.005			1411
8-13		03:00	60	00		0.978			1430
		07:00	64	00		0.953			1447
		11:00	68	00		0.930			1464
		15:00	72	00		0.908			1482
		19:00	76	00		0.888			1498
8-14		23:00	80	00		0.868			1514
		03:00	84	00		0.850			1531
		07:00	88	00		0.833			1546
		11:00	92	00		0.816			1561
		15:00	96	00		0.801			1575
8-15		19:00	100	00		0.786			1590
		23:00	104	00		0.772			1604
		03:00	108	00		0.758			1619
		07:00	112	00		0.745			1631
		10:30	115	30		0.734			1644
	Gradient traverse	12:00	117	00		0.729	483	Pkr	1646

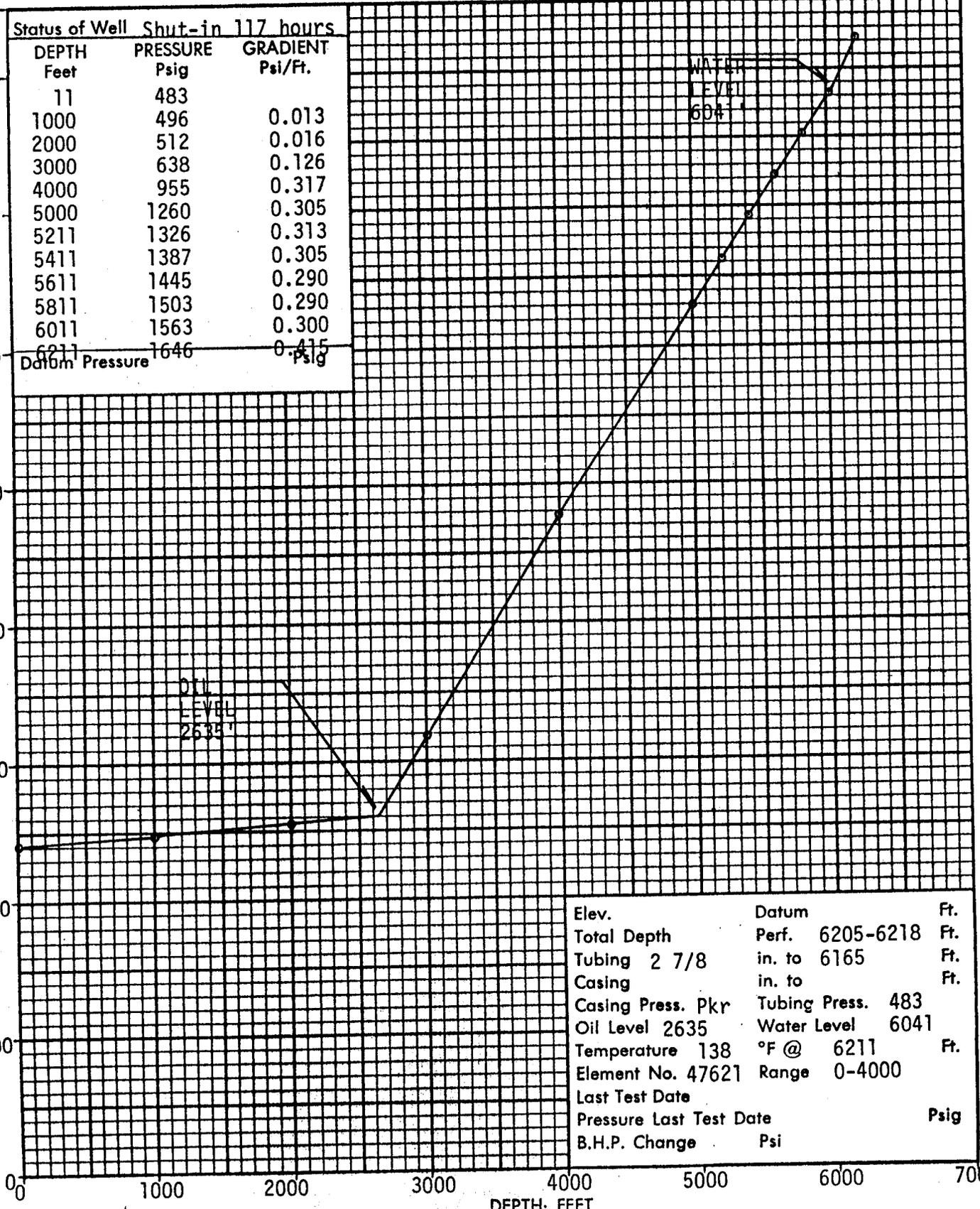


**EFTELLER, INC.**

reservoir engineering data  
MIDLAND, TEXAS

Page 5 of 5  
File 2-18846-BU

Company SAMEDAN OIL CORPORATION Lease MUSTANG UNIT Well No. 27-42  
Field MUSTANG UNIT County SAN JUAN State UTAH  
Formation \_\_\_\_\_ Test Date AUGUST 15, 1987



PRESSURE POUNDS PER SQUARE INCH GAUGE

DEPTH: FEET

Total Production 1560 Bbls. Oil  
Average Daily Rate 73.33 Bbls.

$$\tau = 510.6$$

$$m = 1015.7$$

$$D^* = 2388.7$$

$$r^2 = 0.9990$$

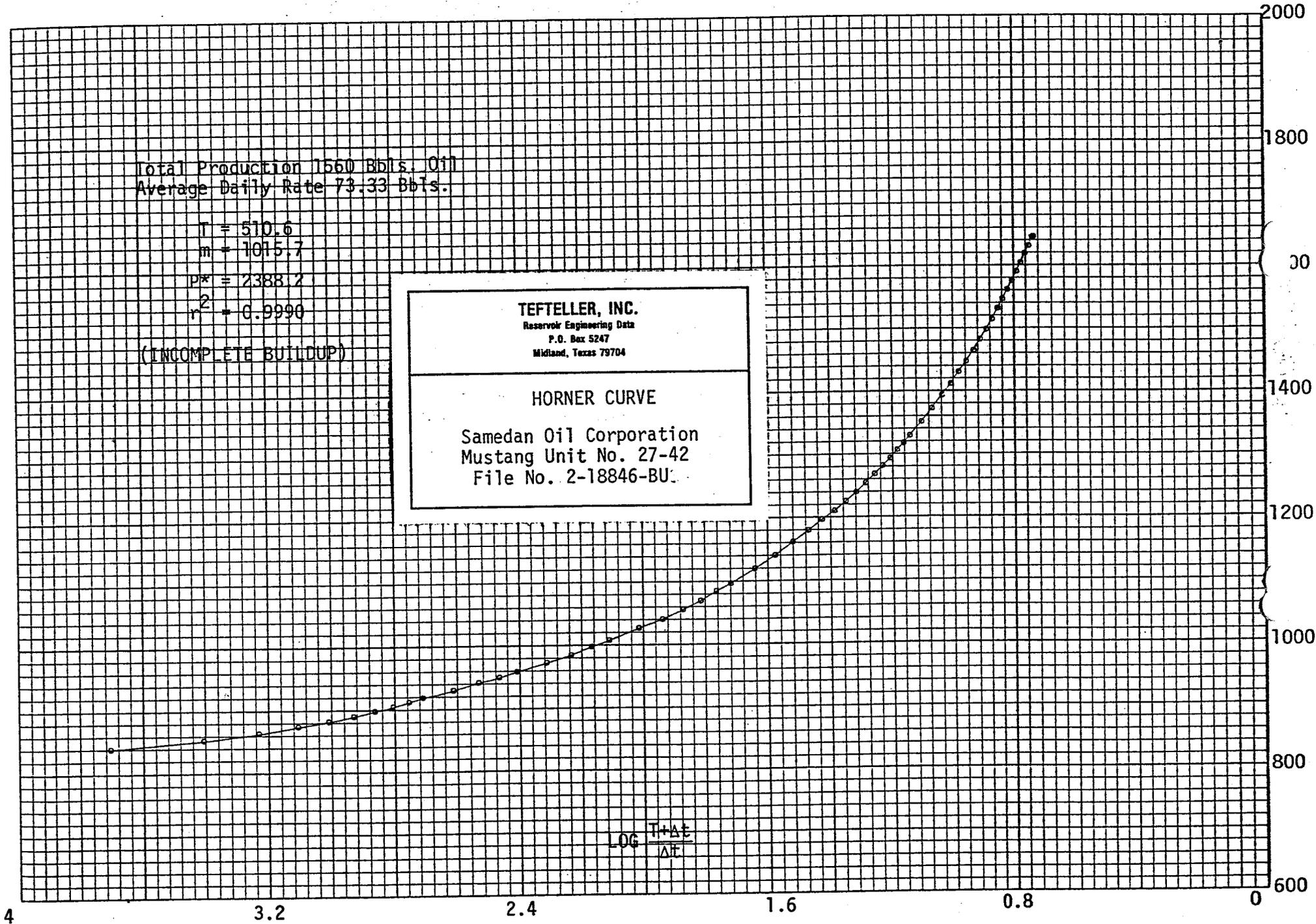
(INCOMPLETE BUILDUP)

**TEFTELLER, INC.**

Reservoir Engineering Data  
P.O. Box 5247  
Midland, Texas 79704

**HORNER CURVE**

Samedan Oil Corporation  
Mustang Unit No. 27-42  
File No. 2-18846-BU

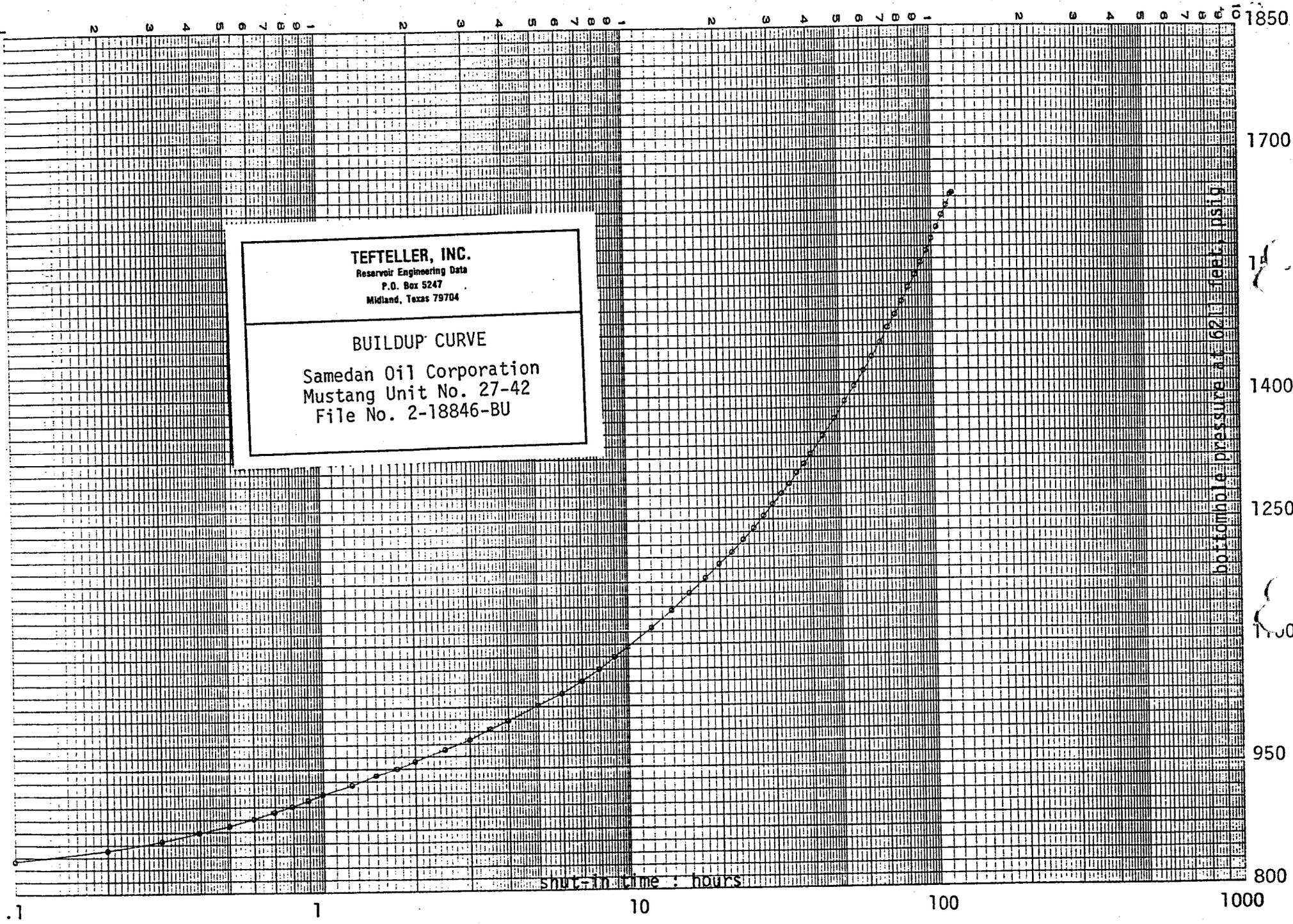


**TEFTELLER, INC.**

Reservoir Engineering Data  
P.O. Box 5247  
Midland, Texas 79704

**BUILDUP CURVE**

Samedan Oil Corporation  
Mustang Unit No. 27-42  
File No. 2-18846-BU



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLY  
(Other Instructions on  
reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

**U-46818**

*Daly*

060917

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

**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  
**Samedan Oil Corporation (303) 534-0677**

3. ADDRESS OF OPERATOR  
**1616 Glenarm Place, Suite 2550, Denver, Co. 80202**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
**Surface: 1940' FNL & 990' FEL Bottom: 1750' FNL & 925' FEL**

7. UNIT AGREEMENT NAME  
**Mustang**

8. FARM OR LEASE NAME  
**Mustang Unit**

9. WELL NO.  
**27-42**

10. FIELD AND POOL, OR WILDCAT  
**Mustang Flat**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**27-36s-23e SLBM**

14. PERMIT NO.  
**45-037-31325**

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**6,040' ungraded**

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:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL 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 checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

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.)\*

**Wish to change drilling program as discussed with Steve Jones of BLM Moab District on 6-2-87.**

**Surface casing will change from 8-5/8" and 24#, to 9-5/8" and 36#. No change in hole size, type, age, or setting depth.**

**Production casing hole size will change from 7-7/8" to 8-3/4". No change in casing size, weight, grade, type, age, or setting depth.**

**BOP will change from 3000# to double ram and Hydril 11" 5000#. Drilling rig not yet selected, but BOP will meet aforementioned specifications and be similar to attached diagram. Rig's choke manifold will be used.**

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

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

SIGNED

*Brian Wood*

TITLE

Consultant

DATE: 6-8-87  
BY: John R. [Signature] DATE: 6-2-87

(This space for Federal or State office use)

APPROVED BY

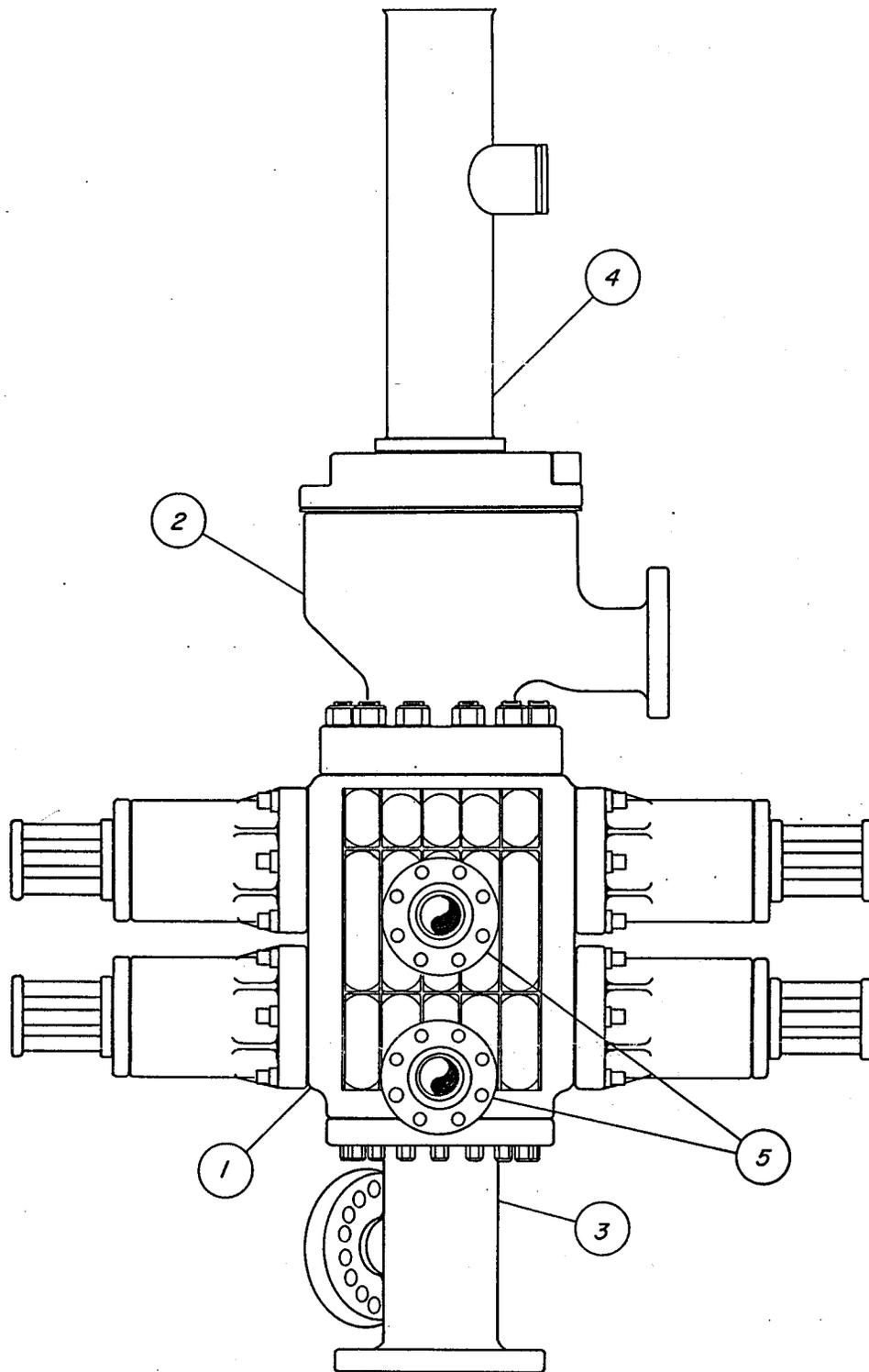
TITLE

CONDITIONS OF APPROVAL, IF ANY:

cc: Brune (3), MDO (3), SJRA (1), UDOGM (2)

RECEIVED  
JUN 04 1987

\*See Instructions on Reverse Side



- ① SHAFFER 11" 5000 LB. LWS MANUAL LOCK RAM BLOWOUT PREVENTER
- ② GRANT 7068 11" 5000 LB. ROTATING DRILL HEAD
- ③ 11" SPOOL
- ④ 11" FLOW NIPPLE
- ⑤ 4" 3000 LB. NOZZLE

5000 LB.  
BOP STACK

**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.)

1. <b>OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/>		5. <b>LEASE DESIGNATION AND SERIAL NO.</b> U-46818	
2. <b>NAME OF OPERATOR</b> Samedan Oil Corporation		6. <b>IF INDIAN, ALLOTTEE OR TRIBE NAME</b> N/A <span style="float:right">072010</span>	
3. <b>ADDRESS OF OPERATOR</b> 1616 Glenarm Place, Suite 2550, Denver, Colorado 80202		7. <b>UNIT AGREEMENT NAME</b> Mustang	
4. <b>LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Surface: (Correction 6/26/87) 1955' FNL and 975' FEL Bottom: 1750' FNL, 925' FEL at 6259' MD (6244' VD)		8. <b>FARM OR LEASE NAME</b> Mustang Unit	
14. <b>PERMIT NO.</b> 43-037-31325		9. <b>WELL NO.</b> 27-42	
15. <b>ELEVATIONS</b> (Show whether DF, RT, GR, etc.) 6039' Graded G.L. 6051' K.B.		10. <b>FIELD AND POOL, OR WILDCAT</b> Mustang Flat	
		11. <b>SUC., T., E., M., OR BLK. AND SURVEY OR AREA</b> 27-36S-23E-SLBM	
		12. <b>COUNTY OR PARISH</b> San Juan	13. <b>STATE</b> 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 type="checkbox"/>	(Other) <u>Progress Report</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.)\*

- 7/1/87 to 7/6/87 Drill directional 8 3/4" hole from 5116' to 6147'. Survey @ 6098' M.D. 6085' V.D. 8 1/4° N 19° E Total Deviation from surface 183' North 43' East.
- 7/7/87 to 7/8/87 Core Ismay Formation from 6147' to 6247'.
- 7/9/87 to 7/11/87 Drill 8 3/4" hole from 6247' to 6476'.
- 7/11/87 Run open hole logs.
- 7/12/87 Run 5 1/2" 17 and 15.5#, L-80 & K-55 casing from 6471' to surface. Cement in one stage with 1050 sks. Lite wt III and 300 sks. Class "B".
- 7/13/87 Release Exeter Rig #68 at 6:00 A.M. Rig down rotary tools.
- 7/14/87 Move out Exeter Rig #68.
- 7/15/87 Prepare location for completion rig.

**RECEIVED**  
JUL 17 1987

DIVISION OF  
OIL, GAS & MINING

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

SIGNED Gary L. Brune TITLE Division Production Superintendent DATE 7/15/87

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

**Litton**

Core Lab

**RECEIVED**

JUL 20 1987

**SAMEDAN OIL CORPORATION**

**CORE ANALYSIS REPORT**

for

**Samedan Oil Corporation**

**Mustang No. 27-42 Well  
Mustang Field  
San Juan County, Utah**

These analyses, opinions, or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgement of Core Laboratories, Inc. (all errors and omissions excepted), but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas, or other mineral or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.

Company : Samedan Oil Corporation  
 Well : Mustang #27-42  
 Location : Sec 27 T36N R23E  
 Co, State : San Juan County, Utah

Field : Mustang  
 Formation : Ismay  
 Coring Fluid : Poly Gel  
 Elevation : 6051 KB

File : 43806-8041  
 Date : 10-JUL-1987  
 API No. :  
 Analysts: FD MW DS

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) K <sub>air</sub> md	POROSITY (HELIUM) %	SATURATION ----- (PORE VOLUME)		GRAIN DENSITY gm/cc	DESCRIPTION
				OIL %	WATER %		

Ismay Formation Core No.1 6147.0-6207.0

1	6147.0- 48.0	0.06	7.1	2.4	7.3	2.78	Ls v/fn xln scat vugs
2	6148.0- 49.0	0.10	8.1	14.2	9.5	2.76	Ls v/fn xln scat vugs
3	6149.0- 50.0	<0.01	2.2	6.1	24.5	2.71	Ls v/fn xln
4	6150.0- 51.0	<0.01	2.8	5.6	33.4	2.71	Ls v/fn xln
5	6151.0- 52.0	<0.01	2.4	7.8	31.2	2.72	Ls v/fn xln
6	6152.0- 53.0	<0.01	1.1	5.8	23.4	2.72	Ls v/fn xln sty
7	6153.0- 54.0	<0.01	2.9	4.0	47.6	2.75	Ls v/fn xln
8	6154.0- 55.0	<0.01	4.6	1.9	44.9	2.75	Ls v/fn xln
9	6155.0- 56.0	<0.01	5.8	1.6	47.5	2.75	Ls v/fn xln
10	6156.0- 57.0	<0.01	2.4	4.1	56.9	2.73	Ls v/fn xln
11	6157.0- 58.0	<0.01	1.4	6.1	12.2	2.71	Ls v/fn xln
12	6158.0- 59.0	<0.01	1.7	5.3	42.0	2.73	Ls v/fn xln
13	6159.0- 60.0	<0.01	1.0	5.3	42.4	2.77	Ls v/fn xln
14	6160.0- 61.0	<0.01	1.8	5.9	47.4	2.74	Ls v/fn xln
15	6161.0- 62.0	<0.01	1.3	6.0	36.1	2.72	Ls v/fn xln
16	6162.0- 63.0	<0.01	0.5	0.0	19.0	2.71	Ls v/fn xln
17	6163.0- 64.0	<0.01	0.3	0.0	9.6	2.70	Ls v/fn xln
	6164.0- 65.0						Ls dense - No analysis
+ 18	6165.0- 66.0	0.10	0.6	4.5	36.3	2.70	Ls v/fn xln carb foss
	6166.0- 67.0						Ls dense - No analysis
+ 19	6167.0- 68.0	1.39	1.1	0.0	44.0	2.71	Ls v/fn xln carb foss
	6168.0- 69.0						Ls dense - No analysis
20	6169.0- 70.0	<0.01	1.1	0.0	12.9	2.73	Ls v/fn xln carb foss

CORE LABORATORIES, INC.

Company : Samedan Oil Corporation  
Well : Mustang #27-42

Field : Mustang  
Formation : Ismay

File : 43806-8041  
Date : 10-JUL-1987

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) K <sub>air</sub> md	POROSITY (HELIUM) %	SATURATION (PORE VOLUME)		GRAIN DENSITY gm/cc	DESCRIPTION
				OIL %	WATER %		
	6170.0- 71.0						Ls dense - No analysis
21	6171.0- 72.0	<0.01	1.0	0.0	15.3	2.72	Ls v/fn xln carb foss
	6172.0- 73.0						Ls dense - No analysis
22	6173.0- 74.0	<0.01	1.2	0.0	30.8	2.72	Ls v/fn xln carb foss
	6174.0- 75.0						Ls dense - No analysis
23	6175.0- 76.0	<0.01	0.9	0.0	13.7	2.72	Ls v/fn xln carb foss
	6176.0- 77.0						Ls dense - No analysis
24	6177.0- 78.0	<0.01	2.4	0.0	43.2	2.72	Ls v/fn xln carb foss
	6178.0- 79.0						Ls dense - No analysis
25	6179.0- 80.0	<0.01	1.6	4.1	33.0	2.71	Ls v/fn xln carb foss
	6180.0- 81.0						Ls dense - No analysis
26	6181.0- 82.0	<0.01	0.8	0.0	28.0	2.72	Ls v/fn xln carb foss
	6182.0- 83.0						Ls dense - No analysis
+ 27	6183.0- 84.0	0.17	2.1	4.3	25.5	2.74	Ls v/fn xln carb foss
	6184.0- 85.0						Ls dense - No analysis
28	6185.0- 86.0	<0.01	1.6	0.0	12.2	2.70	Ls v/fn xln carb foss
	6186.0- 87.0						Ls dense - No analysis
+ 29	6187.0- 88.0	0.11	1.2	13.6	27.3	2.77	Ls v/fn xln carb foss
	6188.0- 89.0						Ls dense - No analysis
30	6189.0- 90.0	<0.01	0.8	18.0	50.5	2.75	Ls v/fn xln carb foss
	6190.0- 91.0						Ls dense - No analysis
31	6191.0- 92.0	<0.01	3.5	2.4	9.7	2.69	Ls v/fn xln
32	6192.0- 93.0	<0.01	3.5	6.0	24.1	2.69	Ls v/fn xln
33	6193.0- 94.0	0.03	1.3	2.3	20.8	2.71	Ls v/fn xln
34	6194.0- 95.0	0.05	4.3	7.0	14.0	2.71	Ls v/fn xln
35	6195.0- 96.0	2.41	6.5	2.7	27.1	2.84	Dol v/fn xln-suc limy
36	6196.0- 97.0	0.38	14.7	17.0	12.7	2.74	Ls v/fn xln-suc
37	6197.0- 98.0	0.06	10.0	11.9	40.2	2.74	Ls v/fn xln-suc
38	6198.0- 99.0	0.19	6.8	11.5	14.5	2.73	Ls v/fn xln-suc carb

CORE LABORATORIES, INC.

Company : Samedan Oil Corporation  
Well : Mustang #27-42

Field : Mustang  
Formation : Ismay

File : 43806-8041  
Date : 10-JUL-1987

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) K <sub>air</sub> md	POROSITY (HELIUM) %	SATURATION ----- (PORE VOLUME)		GRAIN DENSITY gm/cc	DESCRIPTION
				OIL %	WATER %		
39	6199.0- 00.0	0.04	10.6	16.1	20.7	2.76	Ls v/fn xln-suc carb
40	6200.0- 01.0	<0.01	7.6	17.5	14.7	2.76	Ls v/fn xln
41	6201.0- 02.0	<0.01	3.7	0.0	43.5	2.73	Ls v/fn xln
42	6202.0- 03.0	<0.01	2.7	4.3	42.7	2.75	Ls v/fn xln
43	6203.0- 04.0	<0.01	2.4	4.3	55.4	2.77	Ls v/fn xln carb foss
44	6204.0- 05.0	<0.01	3.6	3.8	45.5	2.79	Ls v/fn xln dol
45	6205.0- 06.0	0.04	11.8	12.4	21.2	2.82	Dol suc limy
46	6206.0- 07.0	0.04	11.2	8.2	26.3	2.83	Dol suc limy

Core No.2 Ismay Formation 6207.0-6258.0

47	6207.0- 08.0	0.51	14.9	0.0	51.6	2.84	Dol suc limy
48	6208.0- 09.0	0.29	11.4	13.1	9.8	2.87	Dol suc
49	6209.0- 10.0	3.61	22.8	17.2	26.8	2.84	Dol suc s/limy
50	6210.0- 11.0	3.01	20.7	18.3	16.8	2.83	Dol suc s/limy pp vugs
51	6211.0- 12.0	0.13	13.1	0.9	40.2	2.82	Dol marly
52	6212.0- 13.0	0.28	16.0	19.6	27.9	2.82	Dol marly sty
53	6213.0- 14.0	0.51	18.5	17.9	27.8	2.82	Dol marly
54	6214.0- 15.0	0.45	17.7	12.9	22.7	2.81	Dol marly
55	6215.0- 16.0	1.43	19.4	7.7	28.7	2.80	Dol marly s/limy
56	6216.0- 17.0	1.90	20.1	18.9	20.8	2.81	Dol marly s/limy
57	6217.0- 18.0	0.47	16.5	0.0	44.5	2.81	Dol marly s/limy
58	6218.0- 19.0	<0.01	2.4	7.8	40.4	2.78	Ls v/fn xln
	6219.0- 20.0						Dol dense - No analysis
59	6220.0- 21.0	0.05	14.9	0.0	42.2	2.80	Dol v/fn xln-suc
	6221.0- 22.0						Ls dense - No analysis
60	6222.0- 23.0	0.02	4.0	0.0	53.5	2.76	Ls v/fn xln
	6223.0- 24.0						Ls dense - No analysis

CORE LABORATORIES, INC.

Company : Samedan Oil Corporation  
 Well : Mustang #27-42

Field : Mustang  
 Formation : Ismay

File : 43806-8041  
 Date : 10-JUL-1987

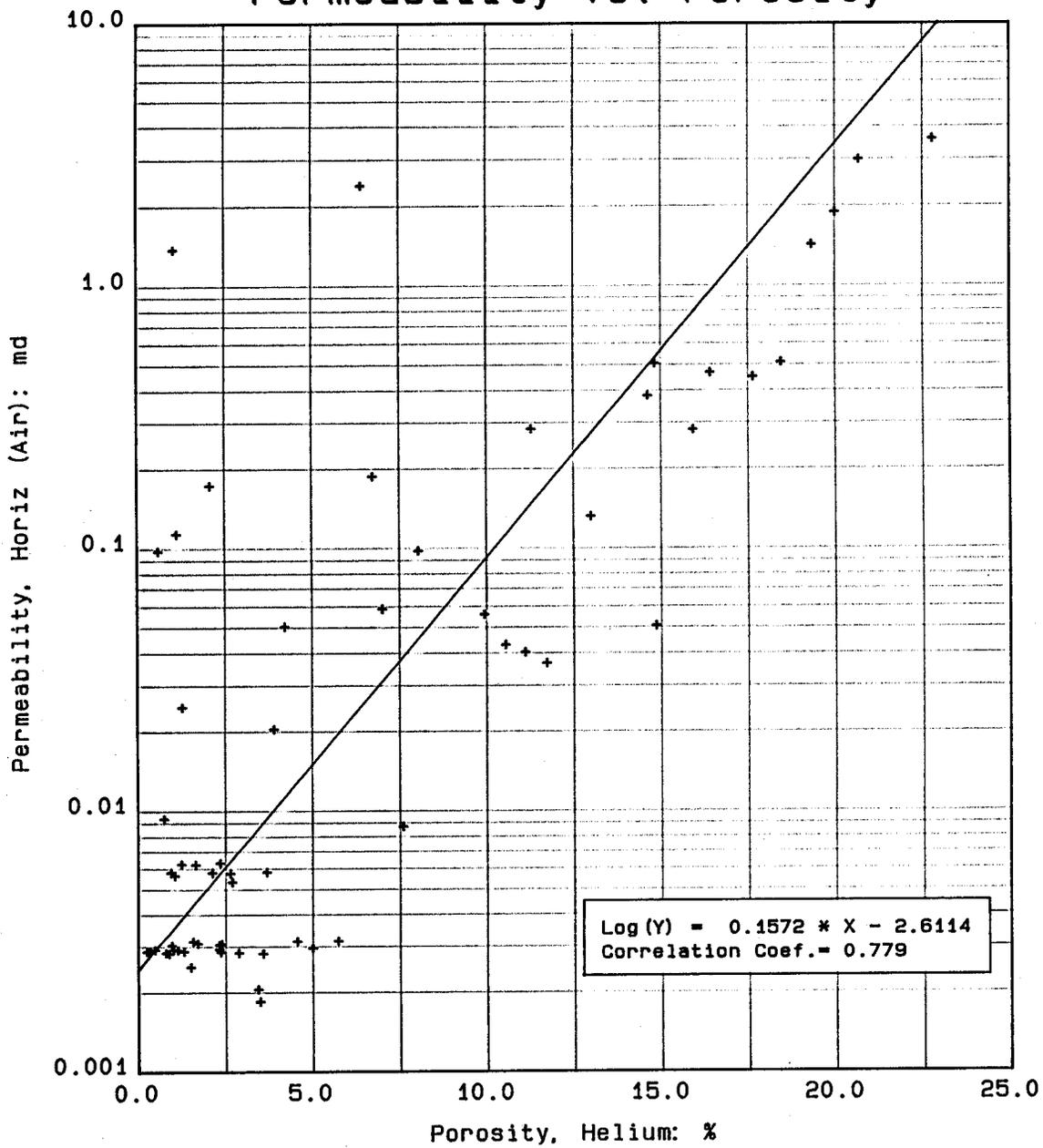
CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) K <sub>air</sub> md	POROSITY (HELIUM) %	SATURATION ----- (PORE VOLUME)		GRAIN DENSITY gm/cc	DESCRIPTION
				OIL %	WATER %		
61	6224.0- 25.0	<0.01	5.1	27.8	30.8	2.73	Ls v/fn xln
	6225.0- 26.0						Ls dense - No analysis
62	6226.0- 27.0	<0.01	0.4	21.9	31.3	2.70	Ls v/fn xln carb
	6227.0- 58.0						shale limy - No analysis

+ denotes fractured perm sample

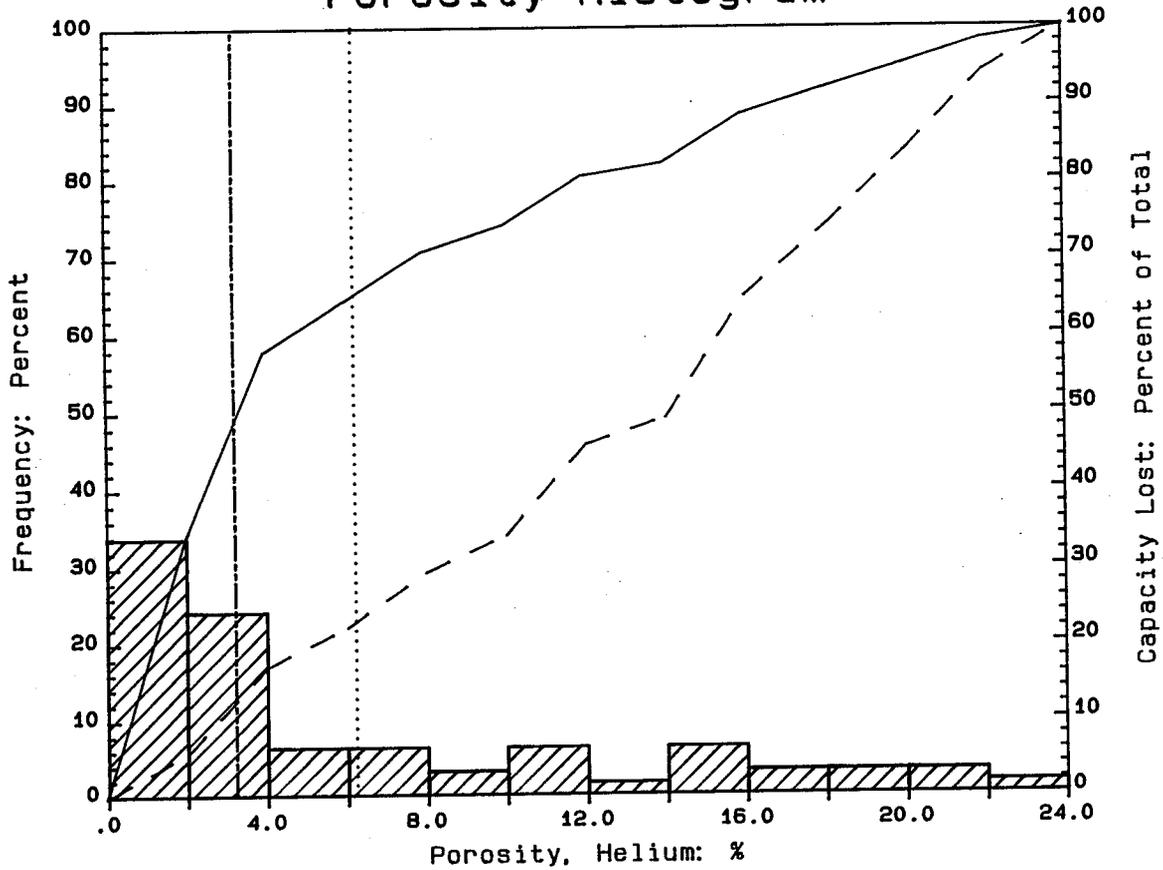


# Permeability vs. Porosity



<p><b>Samedan Oil Corporation</b> Mustang #27-42 Mustang Field</p> <p>Ismay (6147-6258 feet)</p> <p>Core Laboratories, Inc.      10-Jul-1987</p>	<p>- LEGEND -</p> <p>Ismay</p>
--	--------------------------------

# Porosity Histogram



**Samedan Oil Corporation**

Mustang #27-42

Mustang Field

Ismay (6147-6258 feet)

Core Laboratories, Inc.

10-Jul-1987

- LEGEND -

- Median Value (3.2)
- ..... Arith. Average (6.2)
- Cumulative Frequency
- - - - Cumulative Capacity Lost

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL  
(Other instructions on re-  
verse 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 different reservoir.  
Use "APPLICATION FOR PERMIT—" for such prop

RECEIVED  
AUG 4 1987

DIVISION OF OIL  
GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.

U-46818

*Dulg.*

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

080604

7. UNIT AGREEMENT NAME

Mustang

8. FARM OR LEASE NAME

Mustang Unit

9. WELL NO.

27-42

10. FIELD AND POOL, OR WILDCAT

Mustang Flat

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

27-36S-23E-SLBM

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Samedan Oil Corporation

3. ADDRESS OF OPERATOR  
1616 Glenarm Place, Suite 2550, Denver, Colorado 80202

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

Surface: (Correction 6/26/87) 1955' FNL and 975' FEL  
Bottom: 1750' FNL, 925' FEL at 6259' MD (6244' VD)

14. PERMIT NO.  
43-037-31325

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6039' Graded G. L. 6051' K. B.

16. 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) Progress Report

(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.)\*

- 7/16/87 MIRU Big A Well Service Rig #20. Nipple up & test 11" x 7 1/16" 5000 psi tbg hd and 7 1/16" 3000 psi BOP's with blind rams and 2 7/8" pipe rams. Pressure test casing and blind rams to 2500 psi for 15 min.
- 7/17/87 TIH with 4 3/4" bit, 5 1/2" casing scraper and 2 7/8", 6.5#, J-55, EUE new tubing. Tag bottom at 6425' K.B. Pressure test. Pipe rams to 2500 psi for 15 min. Circ hole w/9.5 ppg production water. TOH. Lay down bit and scraper. SIFN.
- 7/18/87 Run GR/Cement Bond Log from 6399' to 2360'. Estimated top of cement at 3280'. Good bond across Ismay Formation. Perforate 2 SPF from 6205' to 6218'. TIH w/packer and set at 6165'. Pressure test backside to 1200 psi. O.K.
- 7/19/87 Acidize w/2000 gals 15% HCl acid. Swab and flow well.
- 7/20-7/21/87 Test well. Flowed 293 BO in 25 1/2 hrs.
- 7/22/87 Run pressure bomb 14 hr SIP 1592 psi @ 6211'. Kill well. Pull test string. RIH w/production packer and 2 7/8" tbg. Set packer @ 6095'. ND BOP's. NU Xmas Tree.
- 7/23-7/24/87 Test well. Recovered 215 BO in 42 hrs.
- 7/25-7/31/87 SITP 990 psi (168 hrs). Wait on Production Facilities.

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

SIGNED Gary L. Brune  
Gary L. Brune

TITLE Division Production Superintendent

DATE 7/31/87

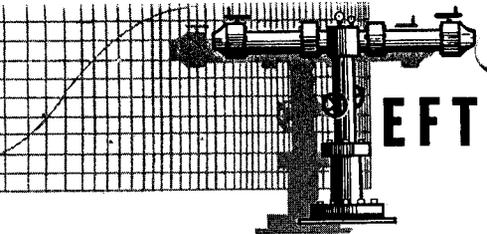
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side



\* 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

August 25, 1987

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

Attention: Mr. Gary Brune

Subject: Bottomhole Pressure Buildup  
Measurement  
Mustang Unit No. 27-42  
Mustang Unit  
San Juan County, Utah  
Our File No. 2-18846-BU

Dear Mr. Brune:

Attached hereto are the results of a bottomhole pressure buildup measurement which was conducted on the above well August 10 through 15, 1987.

The data presented are in tabular and graphical form. Collected separator oil and gas samples for recombination. The samples were shipped to Core Laboratories, Inc., in Aurora, Colorado, for analysis.

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

NT/lw

Samedan Oil Corporation  
Page Two  
Distribution List

- 2cc: Samedan Oil Corporation  
110 West Broadway  
P.O. Box 909  
Ardmore, OK 73401-110  
Attn: Mr. Alan Haltom
- 3cc: Samedan Oil Corporation  
1616 Glenarm Place, Suite 2550  
Denver, CO 80202  
Attn: Mr. Gary Brune
- 2cc: Marathon Oil Company  
P.O. Box 120  
Casper, WY 82602  
Attn: Elizabeth Strathouse
- 1cc: John M. Beard  
3030 NW Expressway, Suite 1405  
Oklahoma City, OK 73112
- 2cc: Yates Petroleum Corporation  
105 South 4th Street  
Artesia, NM 88210
- 2cc: Santa Fe Energy Company  
1616 Glenarm Place, Suite 2600  
Denver, CO 80202  
Attn: Mr. Mike Dilli
- 1cc: MCO Resources, Inc.  
5718 Westheimer  
MCO Plaza  
Houston, Texas 77057  
Attn: Mr. Jim Roth

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

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-verse 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  GAS WELL  OTHER

2. NAME OF OPERATOR  
Samedan Oil Corporation

3. ADDRESS OF OPERATOR  
1616 Glenarm Place, Suite 2550, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
Surface: (Correction 6/26/87) 1955' FNL and 975' FEL  
Bottom: 1729' FNL, 918' FEL at 6476' MD (6398' VD)

14. PERMIT NO.  
43-037-31325

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6039' Graded G. L. 6051' K. B.

5. LEASE DESIGNATION AND SERIAL NO.  
U-46818 *Drig*

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A 102611

7. UNIT AGREEMENT NAME  
Mustang

8. FARM OR LEASE NAME  
Mustang Unit

9. WELL NO.  
27-42

10. FIELD AND POOL, OR WILDCAT  
Mustang Flat

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA  
27-36S-23E-SLBM

12. COUNTY OR PARISH 13. STATE  
San Juan Utah

**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)  Progress Report

- 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.)\*

- 8/10/87 Ran BHP Bomb with well flowing and set at 6211'. Flowed well 2 hrs and shut in.
- 8/15/87 Pull Pressure Bomb. Bottom Hole Flowing Pressure prior to shut in 810 psi. 117 Hr Build up Pressure 1646 psi. Tied well into new 3" gas gathering line. Returned well to production flowing.
- 9/5/87 Perforate with well flowing using 1 11/16" Dyna cap SSB changes with 4 SPF from 6192' to 6202'.
- 9/20/87 Shut well in. Rig up Halliburton to Xmas Tree. Acidize Ismay perms from 6192' to 6202' and 6205' to 6218' as follows:
  - 1) 500 gal gelled 20% HCl acid
  - 2) 1000 gal gelled 2% KCl water with diverter.
  - 3) 1000 gal gelled 20% HCl acid
  - 4) 1000 gal gelled 2% KCl water with diverter.
  - 5) 1500 gal gelled 20% HCl acid
  - 6) 2000 gal 2% KCl slick water
  - 7) 300 gal 50/50 Methonal and 2% KCl water mixture.
  - 8) 1510 gal 2% KCl slick water.
- 9/20 to 9/23/87 Swabbed and flowed well.
- 9/29/87 Well flowed 52B0,0BW and 170 MCF on 20/64" choke w/130 psi.

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

SIGNED Gary L. Brune  
Gary L. Brune

TITLE Division Production Superindendant

DATE 10/16/87

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other In-  
structions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

8

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. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
Samedan Oil Corporation

3. ADDRESS OF OPERATOR  
1616 Glenarm Place, Suite 2550, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
 At surface 1955' FNL and 975' FEL  
 At top prod. interval reported below  
 1759' FNL and 928' FEL  
 At total depth  
 6398' TVD  
 1729' FNL and 918' FEL

14. PERMIT NO. 43-037-31325 DATE ISSUED 6/12/87

5. LEASE DESIGNATION AND SERIAL NO. U-46818  
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A  
 7. UNIT AGREEMENT NAME Mustang  
 8. FARM OR LEASE NAME Mustang Unit  
 9. WELL NO. 27-42  
 10. FIELD AND POOL, OR WILDCAT Mustang Flat  
 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 27-36S-23E-SLBM  
 12. COUNTY OR PARISH San Juan  
 13. STATE Utah

15. DATE SPUDDED 6/20/87 16. DATE T.D. REACHED 7/10/87 17. DATE COMPL. (Ready to prod.) 7/23/87 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 6051' KB 19. ELEV. CASINGHEAD 6039'

20. TOTAL DEPTH, MD & TVD 6476' MD 6398' TVD 21. PLUG, BACK T.D., MD & TVD 6425' MD 6348' TVD 22. IF MULTIPLE COMPL., HOW MANY\* → 23. INTERVALS DRILLED BY 0-6476 24. ROTARY TOOLS 25. CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
 6192' to 6218' MD Upper Ismay Formation  
 6178' to 6204' TVD  
 25. WAS DIRECTIONAL SURVEY MADE yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL/GR and FDC/CNL GR MICRO-SEISMIC LOG-CASED LOG 1-14-88 LASERLOG, FORMATION TESTER, BHC SONIC 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"	75	146'	20"	130 sx Class "B"	0
9 5/8"	36	2450'	12 1/4"	690sx Lite & 300sx Class "B"	0
5 1/2"	15.5# & 17#	6471'	8 3/4"	1015sx Lite & 300sx Class "B"	0

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8"	6093'	6095'

31. PERFORATION RECORD (Interval, size and number)  
 6192' to 6202' 41-0.5" holes  
 6205' to 6218" 27-0.5" holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6192' to 6202'	3000 gal gelled 20% HCl (both zones)
6205' to 6218'	2000 gal 15% HCL (Lower Zone)

33.\* PRODUCTION

DATE FIRST PRODUCTION 7/20/87 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
9/29/87	24	20/64"	→	52	170	0	3269

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
130 psi.	0	→	52	170	0	45.2

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Stripped at Gas Plant and Rejected TEST WITNESSED BY Randall Shelton

35. LIST OF ATTACHMENTS Directional Survey, Core Analysis, Bottomhole Pressure Buildup

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

SIGNED Gary J. Brune TITLE Division Production SUPERINTENDANT DATE 10/16/87

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

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):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Upper Ismay	6108'	6224'	Approx. 24' of Limestone and Dolomite porosity greater than 6% containing Hydrocarbons	Upper Ismay	6103'	6094'
Upper Ismay	6147	6207	Core #1 cut 60' REC 60'	Hovonucep	6224'	6210'
Upper Ismay	6207	6258'	Core #2 cut 51' REC 50'	Lower Ismay	6266'	6251'
				Gothic Shale	6314'	6299'
				Desert Creek	6344'	6329'
				Akah	6411'	6395'

**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.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-46818 <span style="float:right">POW</span>
2. NAME OF OPERATOR Samedan Oil Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A <span style="float:right">110616</span>
3. ADDRESS OF OPERATOR 1616 Glenarm Place, Suite 2550, Denver, Colorado 80202		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 Surface: (Correction 6/26/87) 1955' FNL and 975' FEL Bottom: 1729' FNL, 918' FEL at 6476' MD (6398' VD)		8. FARM OR LEASE NAME Mustang Unit
14. PERMIT NO. 43-037-31325	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6039' Graded G. L. 6051' K. B.	9. WELL NO. 27-42
		10. FIELD AND POOL, OR WILDCAT Mustang Flat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR ARMA 27-36S-23E-SLBM
		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 type="checkbox"/>	(Other) _____	
(Other) <u>vent or flare gas</u> <input checked="" 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.)\*

The subject well currently flows approximately 50 BOPD, < 1 BHPD and 140 MCFPD at 80-120 psi. The gas is produced into the Mustang Unit gas gathering system for treatment and reinjection. The gas line pressure is about 80 psi. As a result of the high gas line pressure the well occasionally loads up and dies. We are requesting permission to vent or flare less than 750 MCF/MO, as needed, to unload the well when it dies off.

Note: All produced gas is metered.

*Approval  
not required  
for this notice.  
- JRB*

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

SIGNED Gary L. Brune TITLE Div. Production Superintendent DATE 11/2/87

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

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

SUBMIT TRIPPLICATE\*  
(Other instructions on reverse side)

Pow/ismy

5. LEASE DESIGNATION AND SERIAL NO. ENTITY 10774 11-46818
6. IF INDIAN, ALLOTTEE OR TRIBE NAME 033010
7. UNIT AGREEMENT NAME MUSTANG
8. FARM OR LEASE NAME MUSTANG
9. WELL NO. 27-42
10. FIELD AND POOL, OR WILDCAT MUSTANG, ISMAY
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 27-T36S-R23E
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.)

RECEIVED  
MAR 25 1988

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
SAMEDAN OIL CORPORATION

3. ADDRESS OF OPERATOR  
1616 GLENARM PLACE, DENVER, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
1955 FNL 975 FEL  
  
AT TD: 1729 FNL 918 FEL

14. PERMIT NO.  
4303731325

15. ELEVATIONS (Show whether DF, RT, OR, etc.)  
KB 6051 GL 6039

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) _____	(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.)\*

SAMEDAN OIL INTENDS TO PERFORATE AND TREAT 2 ZONES (Upper Ismay)

- 1.) 6190-6194 at 1 SPF, 5 SHOTS TOTAL; ACIDIZE w/500 gal 15% HCl (6177-6181 TVD)
- 2.) 6135-6142 at 2 SPF, 15 SHOTS TOTAL; ACIDIZE w/1000 gal 15% HCl (6122-6129 TVD)

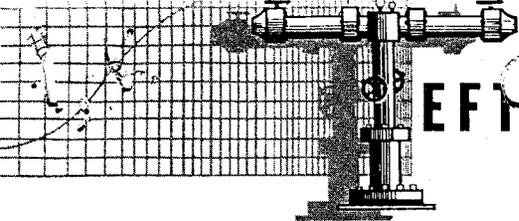
THE WELL WILL THEN BE PRODUCED THROUGH 2 3/8" TUBING USING PLUNGER LIFT TO ASSIST IN PRODUCTION AND PARAFFIN REMOVAL.

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 3/29/88  
BY: [Signature]

18. I hereby certify that the foregoing is true and correct  
SIGNED Scott Henke TITLE PETROLEUM ENGINEER DATE 3/23/88

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:



BHP \* BU \* PL \* 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  
San Juan County, <sup>UTAH</sup> ~~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



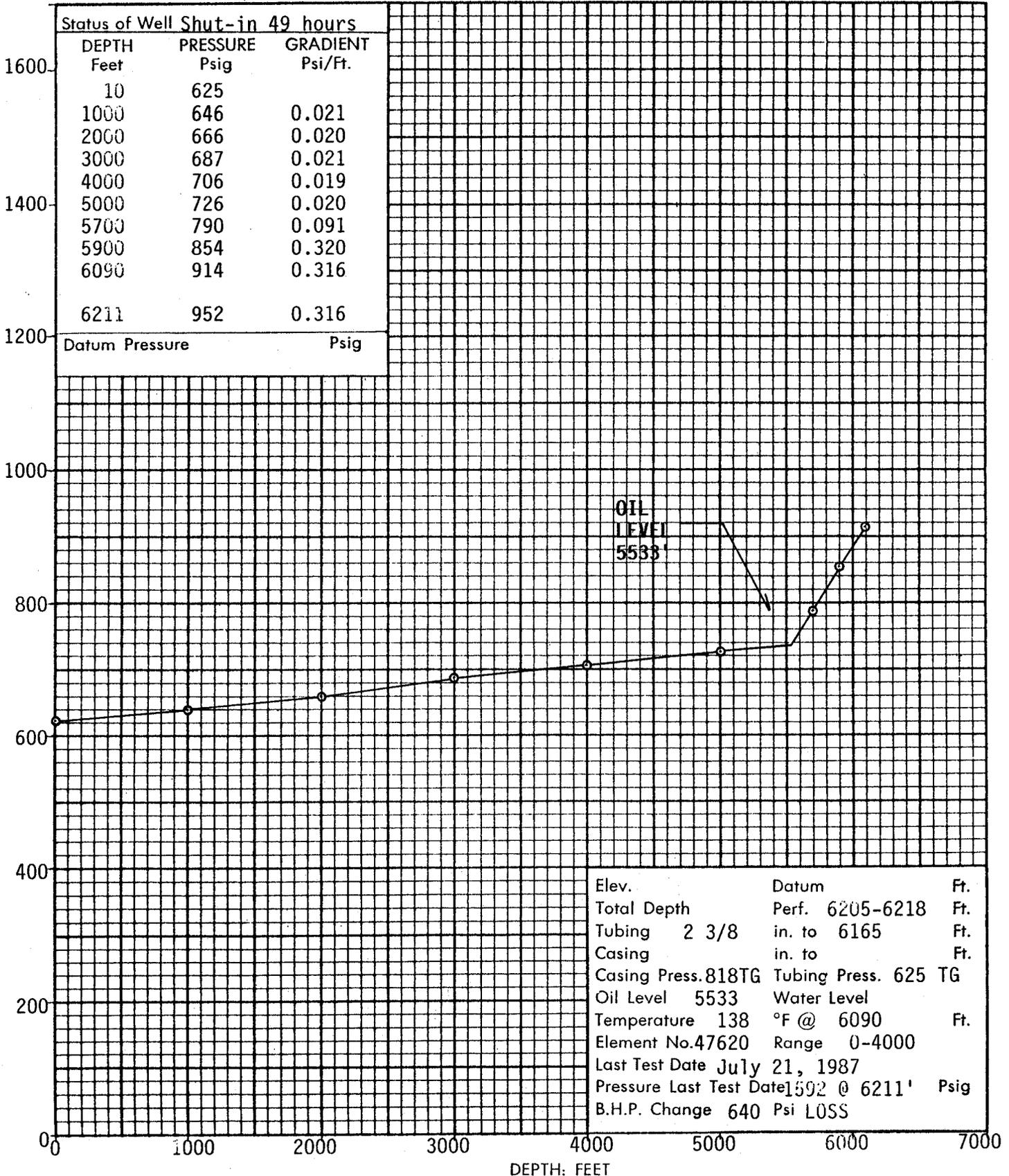
API 43-037-31325  
36S 23E Sec 27

Company SAMEDAN OIL CORPORATION Lease MUSTANG UNIT Well No. 27-42  
 Field MUSTANG County SAN JUAN State UTAH  
 Formation ISMAY Test Date JUNE 16, 1989

Status of Well Shut-in 49 hours

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
10	625	
1000	646	0.021
2000	666	0.020
3000	687	0.021
4000	706	0.019
5000	726	0.020
5700	790	0.091
5900	854	0.320
6090	914	0.316
6211	952	0.316
Datum Pressure		Psig

PRESSURE POUNDS PER SQUARE INCH GAUGE



# Delaware

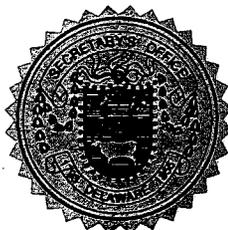
PAGE 1

*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:

- and
- (a) Samedan Oil Corporation, a Delaware corporation ("Samedan");
  - (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.

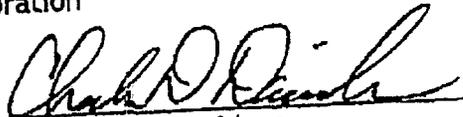
(5) The Certificate of Incorporation of Noble shall be the Certificate of Incorporation of the surviving corporation.

(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

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

NOV 27 1998

THOMPSON & KNIGHT

DEC 20 2002 12:00PM  
TOTAL P.04



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

File Number:

Check Here If Non-Refundable Fee: [ ] Profit \$50.00 [ ] 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

- 1. A corporation of the state of Delaware incorporated 29 day of December 1969 (year)
2. The corporations period of duration is perpetual (usually perpetual).
3. The address of the corporation's principal office is: 350 Glenborough Drive, Suite 100 Houston Texas 77061
4. The Registered Agent in Utah is: C T Corporation System Bank One Tower, 8th Floor 50 West Broadway Salt Lake City, Utah 84101
5. The business purposes to be pursued in Utah are: Oil and Gas Company
6. The corporation commenced or intends to commence business in Utah on: December 31, 2002
7. The names and addresses of the corporation's officers and directors are: President See Attached
8. 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.
9. 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

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: 140 East 300 South, Main Floor
Corporation's Information Center: (801) 530-4349
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: \$150.00

common/forms/Corp/Certauth
Revised: 02-21-02.mn

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

14 P. 14 NO. 453

JAN. 7. 2003 11:10AM THOMPSON & KNIGHT

<b>Name</b>	<b>Office/Title</b>	<b>Mailing Address</b>
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

JAN. 7. 2003 11:10AM THOMPSON & KNIGHT

# Delaware

PAGE 1

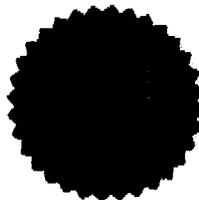
*The First State*

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

0738126 8300

030006092

AUTHENTICATION: 2186055

DATE: 01-06-03

<p align="center"><b>STATE OF UTAH DEPARTMENT OF COMMERCE REGISTRATION</b></p> <p align="center"><b>NOBLE ENERGY, INC.</b></p> <p><b>EFFECTIVE</b> 01/07/2003</p> <p><b>EXPIRATION</b> *RENEWAL</p>	<p><b>REFERENCE NUMBER(S), CLASSIFICATION(S) &amp; DETAIL(S)</b></p> <p>Corporation - Foreign - Profit 5250317-0143</p>
---	---

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.

**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  
CT 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



# 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

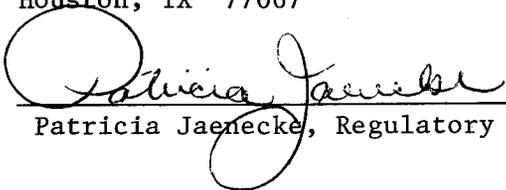
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>SEE ATTACHED</b>
2. NAME OF OPERATOR: <b>NOBLE ENERGY, INC.</b>		8. WELL NAME and NUMBER: <b>SEE ATTACHED</b>
3. ADDRESS OF OPERATOR: <b>12600 Northborough</b> CITY <b>Houston</b> STATE <b>TX</b> ZIP <b>77067</b>	PHONE NUMBER: <b>281-876-6150</b>	9. API NUMBER: <b>SEE ATTACHED</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>SEE ATTACHED LIST</b>		10. FIELD AND POOL, OR WILDCAT: <b>SEE ATTACHED</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		COUNTY: <b>San Juan</b>
		STATE: <b>UTAH</b>

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"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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

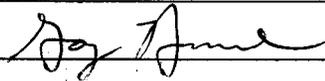
FROM: SAMEDAN OIL CORPORATION  
12600 Northborough, #250  
Houston, TX 77067

  
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

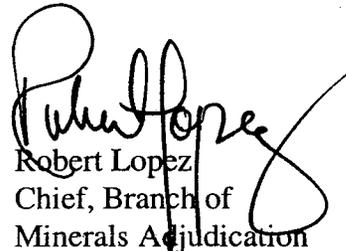
To: Moab Field Office

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

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

:  
: 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  
:

### 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,

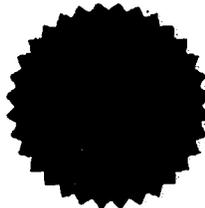
WITH AND INTO "NOBLE ENERGY, INC." UNDER THE NAME OF "NOBLE ENERGY, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTIETH DAY OF DECEMBER, A.D. 2002, AT 4 O'CLOCK P.M.

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 &amp; 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:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

State

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:  
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

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  
N2345

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

NAME (PLEASE PRINT) Gary C. Goldsmith

TITLE Attorney In Fact

SIGNATURE [Signature]

DATE 7/14/03

(This space for State use only)

RECEIVED

AUG 14 2003 1850-59

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
<del>MUSTANG U 1</del>	<del>4303730776</del>	<del>36S 23E 27</del>	<del>GW</del>	<del>S</del>	<del>F</del>
BONITO 41-6-85	4303731824	38S 25E 06	OW	P	F



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:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**U-46818**

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

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.

8. WELL NAME and NUMBER:  
**Mustang 27-42**

9. API NUMBER:  
**037-31325**

1. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
**DJ Simmons, Inc.**

3. ADDRESS OF OPERATOR:  
1009 Ridgeway Place CITY **Farmington** STATE **NM** ZIP **87401** PHONE NUMBER:  
**(505) 326-3753**

10. FIELD AND POOL, OR WILDCAT:  
**Mustang -Ismay**

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: **1955' FNL x 975' FEL** COUNTY: **San JuanNE**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SENE 27 36S 23E** STATE: **UTAH**

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: <u>9/3/2004</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input checked="" 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"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input 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.

D.J. Simmons, Inc. plans to re-stimulate the existing upper Ismay perforations, and add two new Upper Ismay production zones in the subject well. The proposed workover plan and well bore schematic are attached.

COPY SENT TO OPERATOR  
Date: 08-04-04  
Initials: CHD

NAME (PLEASE PRINT) Robert R. Griffee TITLE Operations Manager  
SIGNATURE [Signature] DATE 8/17/2004

(This space for State use only)

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

Date: 8/25/04  
By: [Signature]

Federal Approval Of This  
Action Is Necessary

Federal Approval Of This  
Action Is Necessary

Date: 4/19/2004

Mustang 27-42  
Upper Ismay Pay-add, and existing Perforation Clean-up

See Well Bore Schematic

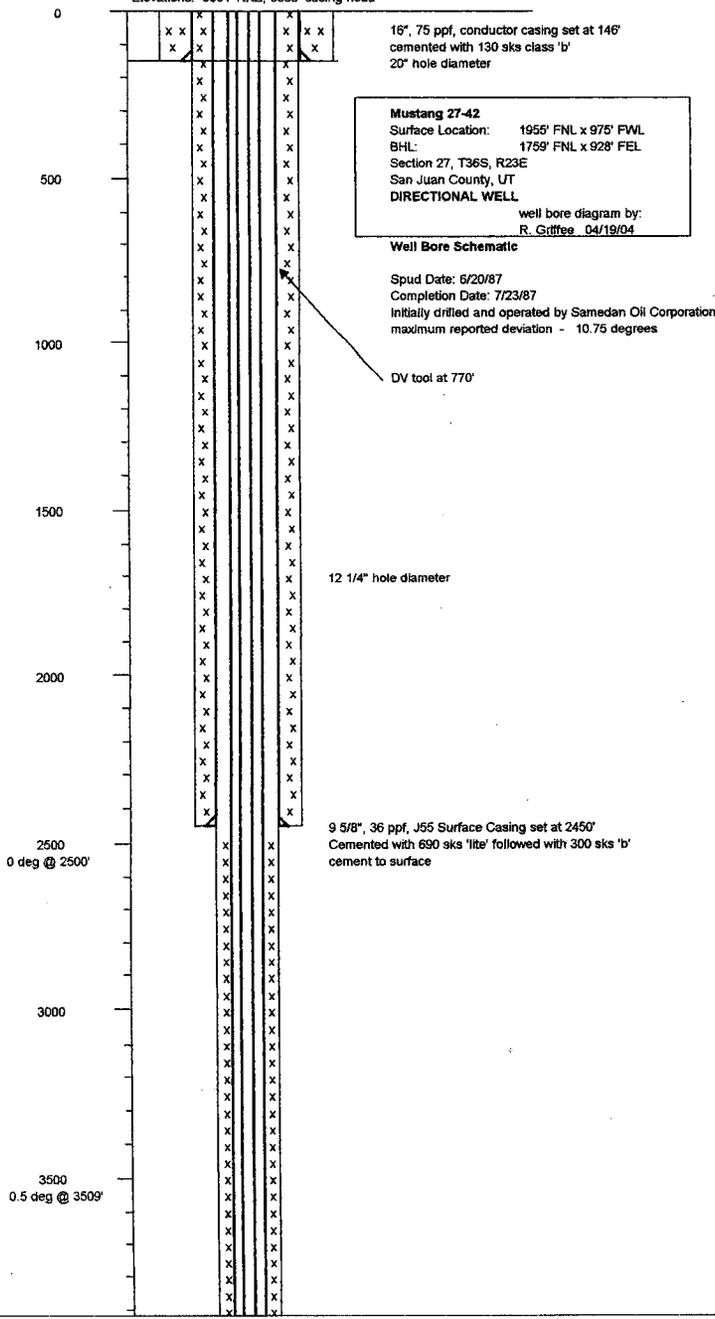
1. Check and test rig anchors. Set test tank.
2. MIRU DJS Rig 111.
3. ND well head, NU BOPE.
4. POOH with 2 3/8" tubing. Visually inspect tubing and replace as necessary.
5. PU casing scraper and round trip to PBTD.
6. PU packer. TIH to 6170'. Set packer and pressure test backside to 1500 psi.
7. RU Schlumberger. Acidize existing perforations with 20% HCL as per Schlumberger recommendation.
8. Flow well back and clean up.
9. Release packer and TOH.
10. RU Blue Jet. Set wire-line set retrievable bridge plug at 6170' +/- . Perforate new Upper Ismay production zones with 4 jspf as follows: 6120' – 6128' and 6132' – 6143'.
11. PU test packer with by-pass and TIH to 6100'.
12. RU Schlumberger. Spot 20% HCL to end of tubing using bypass. Set packer. Acidize perforated interval as per Schlumberger recommendation.
13. Let acid spend on formation as per recommendation.
14. Flow well back and test.
15. TIH and retrieve bridge plug. TOH.
16. Land tubing and return well to production.

DJ SIMMONS, INC.

1009 Ridgeway Place  
Suite 200  
Farmington,  
New Mexico 87401

505-326-3753  
505-327-4659 FAX  
info@djsimmonsinc.com  
www.djsimmonsinc.com

Elevations: 6051' RKB, 6039' casing head



RECEIVED

AUG 23 2004

DIV. OF OIL, GAS & MINING



# 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

*43-037-31325 Mustang 27-42  
T365 R23E 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

**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.

OIL WELL  GAS WELL  OTHER \_\_\_\_\_

5. LEASE DESIGNATION AND SERIAL NUMBER:

U-46818

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:

Mustang 27-42

9. API NUMBER:

43-037-31325

10. FIELD AND POOL, OR WILDCAT:

Mustang-Ismay

NAME OF OPERATOR:

D. J. Simmons, Inc.

(505) 326-3753

ADDRESS OF OPERATOR:

1009 Ridgeway Place, Ste. 200,

City Farmington, State NM

PHONE NUMBER

Zip 87401

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1955' FNL x 975' FEL

COUNTY: San Juan

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

SENE Sec27 T36S R23E SLBM

STATE: UTAH:

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

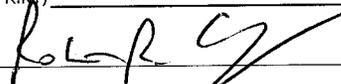
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER 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 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 10/04/04	<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.

D.J. Simmons, Inc has re-stimulated the Ismay perforations and added Ismay perforations as described in the pervious Sundry dated 04/19/04. The workover reports and well bore diagram are attached.

NAME (PLEASE PRINT) Robert R. Griffec

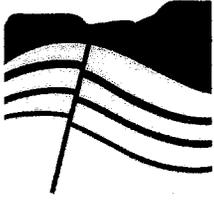
TITLE Operations Manager

SIGNATURE 

DATE October 20, 2004

(This space for State use only)

**RECEIVED**  
**OCT 25 2004**  
DIV. OF OIL, GAS & MINING



Mustang 27-42  
Workover Reports

**DJ SIMMONS, INC.**

1009 Ridgeway Place  
Suite 200  
Farmington,  
New Mexico 87401

505-326-3753  
505-327-4659 FAX  
info@djsimmonsinc.com  
www.djsimmonsinc.com

9/14/04

Road rig to location. Set in equipment. SDFN. Travel to town.

9/15/04

Travel to location. SITP - 110psi, SICP - 275psi. Blow well down. ND wellhead (Bolts will be replaced). NU BOPE. RU floor ect. Release tbg anchor. TOH, SLM with 99 stands, anchor, and s.nipple 1jt from bottom. Tally total = 6229.55. MU scraper, xovers and with TIH 30 stds. Tubing had virtually no scale inside. Secure well. SDFN, travel in.

9/16/04

Travel to location. SITP - 120psi, SICP - 120psi. Blow well down. Kill well w/ 10bbls fresh water. Finish TIH w/scraper to 6354.06. TOH, LD scraper and subs. RU Bluejet wireline. Run MTT caliper log. No perforations were discovered to exist in the upper Ismay. MU gun to perforate. Perforate from 6132'-6143' and 6120'-6128' with 4 jspf. RD Bluejet. Secure well. SDFN. Travel in.

9/17/04

Travel to location. SICP 140psi. Blow well down. MU RBP, Rhead, and PKR. TIH w/89 stds to approx. 5600'. Secure well. Travel to yard. SDFN.

9/20/04

Travel to location. SICP 440psi, SITP 440psi. Blow well down. Paraffin plugs and gas blew up tbg. TIH to 6100'. Set RPB, set PKR, pressure test csg above pkr to 500 psi, test good. Try to pressure test tbg. Tbg plugged with paraffin. Release PKR. Call and standby for hot oil truck. Hot oil backside of tbg with 45 bbls water. Hot oil tbg with 25 bbls of water. Pressure test tbg to 2500psi, test good. Move RBP to 6270' and set. Pull up to 6167' and set PKR. Hold safety meeting w/ Schlumberger. Pressure test lines to 4000psi. Secure well. SDFN. Travel in.

9/21/04

Travel to location. Hold safety meeting. Begin stage 1 acid job (pre-existing Ismay perforations). Pumped acid as follows:

Step #	Step Name	Fluid Name	Volume - gals	N2 - scf/bbl
1	Main Fluid	DAD HCL 20	2000	400
2	Diversion Foam	Diversion YF140	1000	400
3	Tbg Spacer	2% KCL	1000	400
4	Main Fluid	DAD HCL 20	1000	400
5	Diversion Foam	Diversion YF140	1000	400
6	Tbg Spacer	2% KCL	1000	400
7	Main Fluid	DAD HCL 20	1000	400

Pumped fluids at 3 bpm +/- with an average pressure of 2900 psi. ISIP - 828 psi, 5 min SIP - 225 psi, 10 min SIP - slight vacuum. RD Schlumberger. Open well. Well on slight vacuum. Had slight blow after 3 hrs. Secure well (leave open overnight), SDFN.

9/22/04

Travel to location. SICP – 140 psi, SITP – 100 psi. Blow well down. Unset packer. TIH and catch RBP. Move and reset RBP at 6175'. Release packer and set at 6045'. RU Schlumberger. Establish injection rate of 1.8 bpm at 2850 psi. Alter acid job, cancel diverter fluids because of high pressure. Spot 5 bbls 20% DAD acid on new perforations. Let acid spend on perms for 15 minutes. Start job at 0.7 bpm and 2950 psi with 400 SCFM of N2. After 27 minutes of pumping pressure broke back to 2350 psi. Increased rate to 2.5 bpm with 1015 SCFM of N2. Noted small pressure breaks throughout the rest of the job. RD Schlumberger. Well on vacuum after 3 hrs of slight blow. Shut in well 1 hour and notes 115 psi SITP. Blow tubing down, no returns. Secure well and SDFN.

9/23/04

Travel to location. SITP – 135 psi. Blow well down. RU and swab. After 1 run had 4 bbls return. Well flowed 11 bbls. Swab a total of 5 runs with well flowing between runs. Total recovery – 35 bbls. Well making gas after second run. Secure well. SDFN.

9/24/04

Travel to location. SITP – 130 psi. Blow well down. Release packer. TIH and catch RBP. TOH with tools and lay down same. Make up 1 joint, SN, and 187 joints 2 3/8" tubing. Land Tubing at 6244' RKB. ND BOPE. NU well head and production lines. Secure well. SDFN.

9/27/04

Travel to location. SITP – 180 psi, SICP – 400 psi. Blow down tubing. RU and swab. Recovered 18 bbls oil and 9 bbls of water in 7 runs, swabbing from SN. Gas started flowing at approximately 98 mcf/d after each run. RU to flow well through production line overnight. SDFN.

9/28/04

Travel to location. SICP - 420psi. Blow well down. Swab well in. After 14 runs, recovered 27 bbls. All water with slight oil. RU to flow tbg and csg overnight down production line. SDFN.  
Travel in.

9/29/04

Travel to location. Well flowed for over 12 hours making approximately 50 MCFD and 0.5 bbls oil, and 1 bbl water. Begin swabbing. Fluid @ 5,200'. Made 15 runs. Total recovery was 33 bbls, 31 bbls water, and 2 bbls of oil. RU to flow CSG o-night. SDFN. Travel in. Note: too muddy to move rig to Wild Stallion.

9/30/04

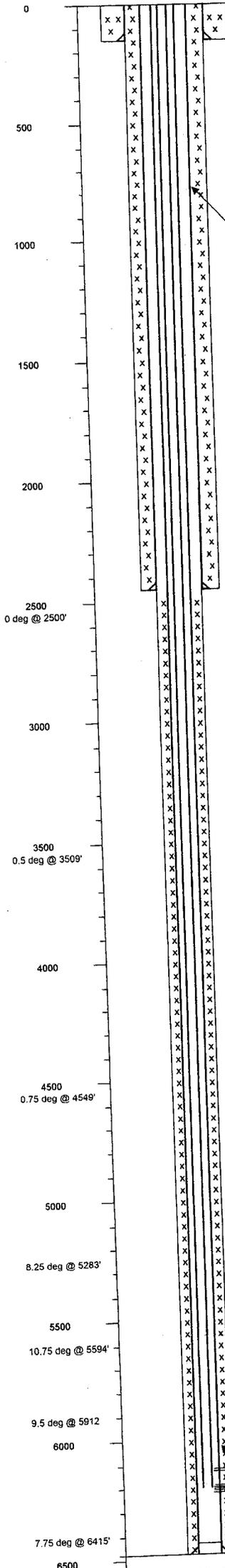
Travel to location. Swab well, 21 runs, 39 bbls recovered, almost all water w/ slight oil show. RU to flow CSG overnight. SDFN. Travel in.

10/01/04

Travel to location. Well made 2.2 bbls fluid over night (1.7 bbls water. 0.5 bbls oil). Began swabbing with the fluid level at 5700'. Well swabbed dry after 2 runs. Change out tubing line. Made 3 additional swab runs. Total recovery was 1 bbl oil and 5 bbls water. Secure well to flow up tubing to production line over weekend. Secure well, SDFN.

10/04/04

Travel to location. SICP – 270 psi. RU to swab. RIH and tag fluid at 5600'. Made 7 runs recovering 6 bbls. Swabbed well down to SN. Blow casing down. ND BOPE, NU well head. Lay down 1 joint. Land tubing at 6212', SN at 6180'. Secure well. Rig down and move to Wild Stallion well. Total water recovered – 175 bbls, total oil – 25 bbls. Note: all fluids from flowback tanks were moved to the production tank. Water can be hauled after separation.



16", 75 ppf, conductor casing set at 146'  
cemented with 130 sks class 'b'  
20" hole diameter

**Mustang 27-42**  
Surface Location: 1955' FNL x 975' FWL  
BHL: 1759' FNL x 926' FEL  
Section 27, T36S, R23E  
San Juan County, UT  
**DIRECTIONAL WELL**  
well bore diagram by:  
R. Griffie 10/20/04

**Well Bore Schematic**

Spud Date: 6/20/87  
Completion Date: 7/23/87  
Initially drilled and operated by Samedan Oil Corporation  
maximum reported deviation - 10.75 degrees  
Last workover 10/04 by DJS

DV tool at 770'

12 1/4" hole diameter

9 5/8", 36 ppf, J55 Surface Casing set at 2450'  
Cemented with 690 sks 'lite' followed with 300 sks 'b'  
cement to surface

8 3/4" hole diameter

TOC inside 9 5/8" casing shoe from Gearhart CBL  
dated 7/18/87

2 3/8", 4.7 ppf, J55 tubing, reported set at 6212', SN @ 6180'

10/04 Ismay Restimulation: Added Upper ismay Perforations  
6132' - 6143' and 6120' - 6128' with 4 jsfp. Acidized with  
4000 gals 20% DAD HCL 20 acid pumped as 65Q N2 foam  
and 2000 gals Diversion YF 140 also pumped as 65 Q foam.

6103'  
Ismay Upper ismay perforations 6192' - 6202', 41 holes,  
and 6205' - 6218', 27 holes  
Original Completion: Acidized both zones with 3,000 gals 20% gelled HCL  
and bottom zone only with 2000 gals 15% HCL

6344'  
Desert Creek 6411'

TD - 6476' MD  
PBTD - 6425' MD

5 1/2", 15.5 ppf production casing  
set at 6476' MD and 6398' TVD  
PBTD = 6425' MD and 6348' TVD  
cemented with 1015 sks 'lite followed by 300 sks class 'b'