

RECEIVED
MAR 28 1988

FILING FOR WATER IN THE
STATE OF UTAH

Rec. by SP
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Receipt # 23909
Microfilmed _____
Roll # _____
RECEIVED

DIVISION OF
OIL, GAS & MINING

APPLICATION TO APPROPRIATE WATER
TEMPORARY

MAR 14 1988

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 1988 accordance with the requirements of Title 73, Chapter 3 of the Utah Code Annotated (1953, as amended).

WATER RIGHTS

* WATER RIGHT NO. 09 — 1565 * APPLICATION NO. A T63122 PRICE _____

1. *PRIORITY OF RIGHT: March 10, 1988 * FILING DATE: March 10, 1988

2. OWNER INFORMATION

Name(s) Samedan Oil Corporation c/o Permits West, Inc. * Interest: _____ %
Address: 37 Verano Loop (505) 984-8120
City: Santa Fe State NM Zip Code: 87505
Is the land owned by the applicant? Yes _____ No XXX
(If "No", please explain in EXPLANATORY section.)

3. QUANTITY OF WATER: _____ cfs and/or Nine ac-ft

4. SOURCE Recapture Creek (Reservoir) * DRAINAGE: _____
which is tributary to San Juan River
which is tributary to Colorado River

POINT(S) OF DIVERSION: _____ COUNTY: San Juan
North 1100 feet and East 200 feet from the SW corner of Sec. 7, T. 36 S., R. 23 E., SLBM

Description of Diverting Works: Water will be pumped directly into 85 bbl tank trucks.
* COMMON DESCRIPTION: 3 1/2 mi. NE of Blanding Blanding Quad

5. POINT(S) OF REDIVERSION
The water will be rediverted from N/A at a point: _____

Description of Rediverting Works: _____

6. POINT(S) OF RETURN
The amount of water consumed will be _____ cfs or 9.0 ac-ft
The amount of water returned will be _____ cfs or _____ ac-ft
The water will be returned to the natural stream/source at a point(s): _____

7. STORAGE
Reservoir Name: N/A Storage Period: from _____ to _____
Capacity: _____ ac-ft. Inundated Area: _____ acres
Height of dam: _____ feet
Legal description of inundated area by 40 acre tract(s): _____

* These items are to be completed by the Division of Water Rights

Appropriate

8. List any other water rights which will supplement this application _____
Application supplements other entities' water rights for stockwatering, irrigation, etc _____

9. NATURE AND PERIOD OF USE

| | | |
|----------------|------------------|-----------------|
| Irrigation: | From _____ | to _____ |
| Stockwatering: | From _____ | to _____ |
| Domestic: | From _____ | to _____ |
| Municipal: | From _____ | to _____ |
| Mining: | From _____ | to _____ |
| Power: | From _____ | to _____ |
| Other: | From May 1, 1988 | to Apr 30, 1989 |

10. PURPOSE AND EXTENT OF USE

Irrigation: _____ acres. Sole supply of _____ acres.
Stockwatering (number and kind): _____
Domestic: _____ Families and/or _____ Persons
Municipal (name): _____
Mining: _____ Mining District in the _____ Mine
Ores mined: _____
Power: Plant name: _____ Type: _____ Capacity: _____
Other (describe): Water will be used for oil well drilling mud, dust control, compaction, etc.

43-037-31404-DM (1-13)

11. PLACE OF USE

Legal description of place of use by 40 acre tract(s): _____
North 2240' and East 950' from the SW corner of Sec. 13, T. 36 S., R. 23 E., SLBM at the Big Pony 1-13
oil well (NWSW 13-36s-23e); South 1750' and West 1275' from the NE corner of Sec. 5, T. 37 S., R. 23
E. at the Lucky Lynn oil well (SENE 5-37s-23e); and North 600' and West 1500' from the SE corner of
Sec. 26, T. 36 S., R. 23 E. at the Mustang 26-34 well (SWSE 26-36s-23e).
#4 SE SW 43-037-31405-DM #4

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of same size if necessary): From #2: Land is public (federal) and administered by Bureau of Land Management, Monticello, Utah. Recapture Reservoir is administered by the San Juan Water Conservancy District. Norman Nielson has approved this use.

The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/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 herein, at the time of filing, rests with the applicant(s).

Rina Wolf
Signature of Applicant(s)

TEMPORARY

STATE ENGINEER'S ENDORSEMENT

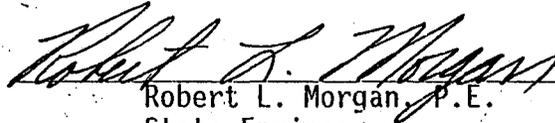
WATER RIGHT NUMBER: 09 - 1565

APPLICATION NO. T63122

1. March 10, 1988 Application received by MP.
 2. March 10, 1988 Application designated for APPROVAL by MP and KLJ.
 3. Comments:
-

Conditions:

This application is hereby APPROVED, dated March 25, 1988, subject to prior rights and this application will expire on March 25, 1989.


Robert L. Morgan, P.E.
State Engineer

STATE ACTIONS

Mail to:
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)

3. APPROXIMATE DATE PROJECT WILL START:
June 10, 1988

4. AREAWIDE CLEARING HOUSE(S) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Southeastern Utah Association of Local Governments

5. TYPE OF ACTION: Lease Permit License Land Aquisition
 Land Sale Land Exchange Other _____

6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill

7. DESCRIPTION:

Samedan Oil Corp. proposes to drill a wildcat well, the Lucky Lynn #1-5, on federal lease number U-58977 in San Juan County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The U.S. Bureau of Land Management is the primary administrative agency in this case and must issue approval to drill jointly with DOGM before operations can commence.

8. LAND AFFECTED (site location map required) (indicate county)
SE/4, NE/4, Section 5, Township 37 South, Range 23 East, San Juan County, Utah

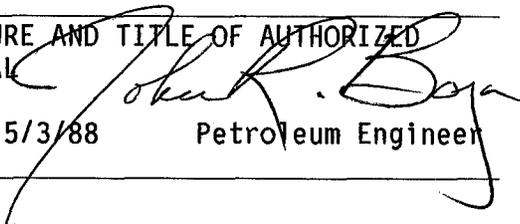
9. HAS THE LOCAL GOVERNMENT(S) BEEN CONTACTED?
Unknown

10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
Degree of impact is based on the discovery of oil or gas in commercial quantities.

11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:
Chip Hutchinson, Moab, 259-8151

12. FOR FURTHER INFORMATION, CONTACT: 13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL

John Baza
PHONE: 538-5340


DATE: 5/3/88
Petroleum Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
APR 28 1988
DEEPEN

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

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
 1750' FNL & 1275' FEL (SENE)
 At proposed prod. zone
 Same

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 1,275'

16. NO. OF ACRES IN LEASE
 1,186.52

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.
 N/A

19. PROPOSED DEPTH
 6,715'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5,872' ungraded ground

22. APPROX. DATE WORK WILL START*
 June 10, 1988

5. LEASE DESIGNATION AND SERIAL NO.
 U-58977

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

7. UNIT AGREEMENT NAME
 N/A

8. FARM OR LEASE NAME
 Lucky Lynn

9. WELL NO.
 1-5

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 5-37s-23e SLBM

12. COUNTY OR PARISH
 San Juan

13. STATE
 Ut.

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-------------------|---------------|------------------------|
| 16" | 13-3/8" | 48* (H-40, ST&C) | 120' | 100 sx or to surface |
| 11" | 8-5/8" | 24* (K-55, ST&C) | 2,500' | 1,125 sx or to surface |
| 7-7/8" | 5-1/2" | 15.5* (K-55 ST&C) | 6,520' | 550 sx or to 3,200' |

- Lease is all Section 5, T. 37 S., R. 23 E., and part of adjacent Section 6.
- Request exception to R615-3-2 because of geology. Exception is to Samedan's own quarter-quarter line, not to another well nor to a lease line.
 - Orthodox well could be drilled at 1980' FNL & 660' FEL, but the well may be a dry hole (there is already a dry hole in the same section). Thus, Samedan needs an exception.
 - Request permission to drill at 1750' FNL & 1275' FEL 5-37s-23e SLBM, San Juan County, Utah.
 - There are no existing wells which offset the proposed exception. Eight potential wells on the adjoining quarter-quarters could offset the proposed location, 5 would be on the same lease and the other 3 would be on a different lease in which Samedan has an interest.
 - Samedan is the lessee or operator of all lands within a 1275' radius.
 - Samedan is the lessee or operator of all drilling units within a 1275' radius.

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 TITLE Consultant DATE 4-26-88

(This space for Federal or State office use)

PERMIT NO. 43-037-31422

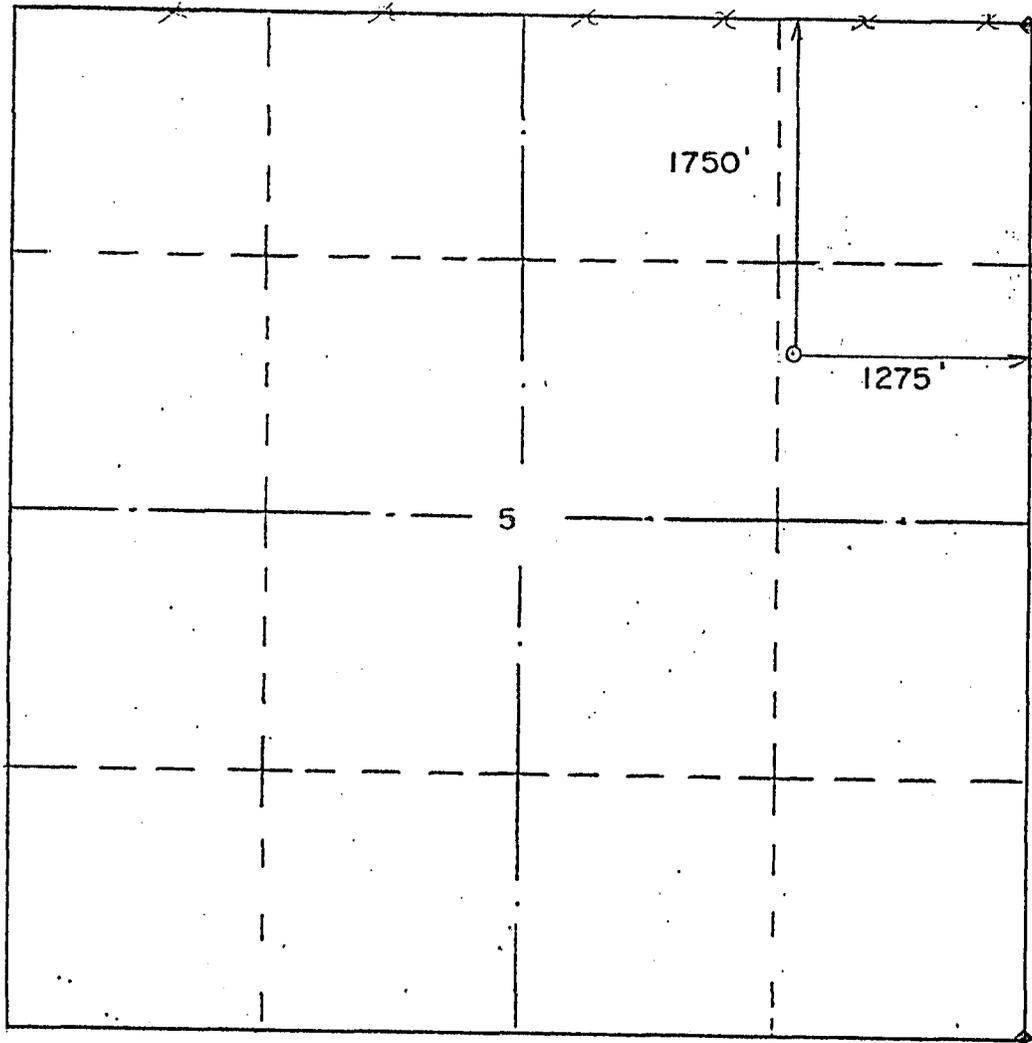
cc: Bruna (3), MDO (3), SJRA, UDOGM (2)

APPROVAL DATE APPROVED BY THE STATE
 OF UTAH DIVISION OF
 OIL, GAS, AND MINING
 DATE: 5-20-88
 BY: John R. B...
 WELL SPACING: R615-3-3

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

*See Instructions On Reverse Side

WELL LOCATION AND ACREAGE DEDICATION PLAT



1"=1000

◆ cap

WELL LOCATION DESCRIPTION:

Samedan Oil, Lucky Lynn 1-5

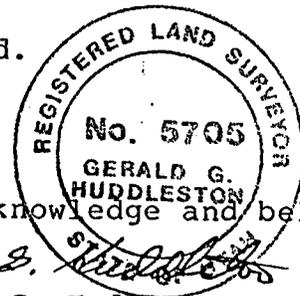
1750'FNL & 1275'FEL

Section 5, T.37 S., R.23 E., SLM

San Juan County, Utah

5872'grd. elevation

Reference: N85 32'E, 472', 5896'grd.



The above plat is true and correct to my knowledge and belief.

16 March 1988

Gerald G. Huddleston, LS

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
 APR 28 1988
 b. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 DIVISION OF 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 1750' FNL & 1275' FEL (SENE)
 At proposed prod. zone Same

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1,275'
 16. NO. OF ACRES IN LEASE 1,186.52
 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. N/A
 19. PROPOSED DEPTH 6,715'
 20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5,872' ungraded ground

5. LEASE DESIGNATION AND SERIAL NO.
 U-58977
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 N/A
 7. UNIT AGREEMENT NAME
 N/A
 8. FARM OR LEASE NAME
 Lucky Lynn
 9. WELL NO.
 1-5
 10. FIELD AND POOL, OR WILDCAT
 Wildcat
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 5-37s-23e SLBM
 12. COUNTY OR PARISH
 San Juan
 13. STATE
 Ut.
 22. APPROX. DATE WORK WILL START*
 June 10, 1988

23. PROPOSED CASING AND CEMENTING PROGRAM

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

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 TITLE Consultant DATE 4-26-88

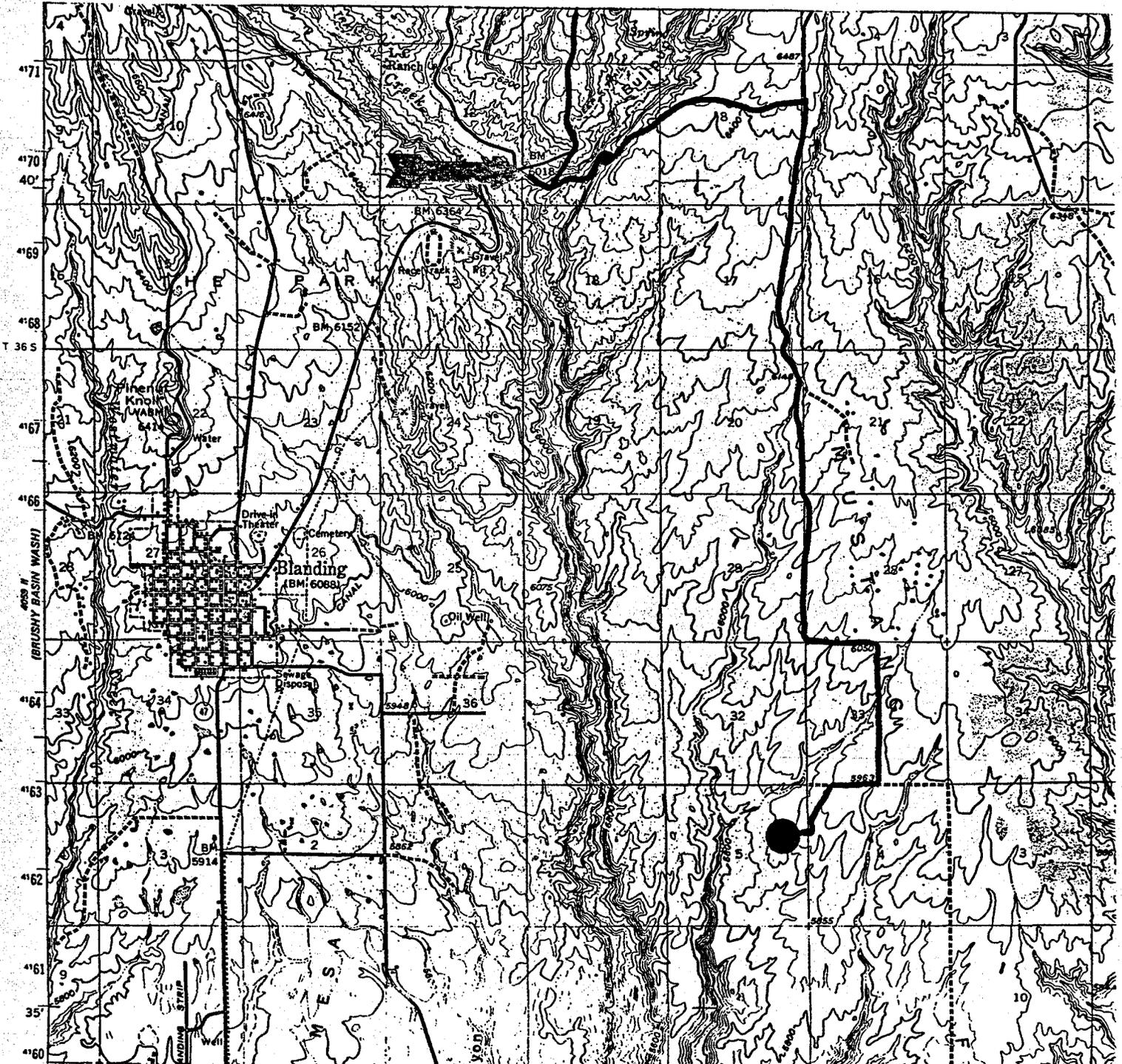
(This space for Federal or State office use)

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

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Samedan Oil Corporation
Lucky Lynn 1-5
1750' FNL & 1275' FEL
Sec. 5, T. 37 S., R. 23 E.
San Juan County, Utah



Proposed Well: ●

Access Route: ~~~~~

Water Source: →

OPERATOR Samedan Oil Corporation DATE 4-28-88

WELL NAME Lucky Lynn 1-5

SEC SENE 5 T 37S R 23E COUNTY San Juan

43-037-31422
API NUMBER

Fed.
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

no other well section 5
water permit T63122 / 09-1565
exception location requested
RDC approval received

APPROVAL LETTER:

SPACING: R615-2-3 _____ UNIT

R615-3-2

_____ CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

RECEIVED
MAY 16 1988
SUBMIT IN TRIPlicate
Section (Reverse side)

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**
DIVISION OF OIL, GAS & MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

| | | |
|---|--|---|
| 1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> | | 5. LEASE DESIGNATION AND SERIAL NO. U-58977 |
| b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/> | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A |
| 2. NAME OF OPERATOR Samedan Oil Corporation (303) 534-0677 | | 7. UNIT AGREEMENT NAME N/A |
| 3. ADDRESS OF OPERATOR 1616 Glenarm Pl., Suite 2550, Denver, Co. 80202 | | 8. FARM OR LEASE NAME Lucky Lynn |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1750' FNL & 1275' FEL (SENE) At proposed prod. zone Same | | 9. WELL NO. 1-5 |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 4 air miles ESE of Blanding, Utah | | 10. FIELD AND POOL, OR WILDCAT Wildcat |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1,275' | 16. NO. OF ACRES IN LEASE 1,186.52 | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 5-37s-23e SLBM |
| 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A | 19. PROPOSED DEPTH 6,715' | 12. COUNTY OR PARISH 13. STATE San Juan Ut. |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5,872' ungraded ground | | 17. NO. OF ACRES ASSIGNED TO THIS WELL 40 |
| 22. APPROX. DATE WORK WILL START* June 10, 1988 | | 20. ROTARY OR CABLE TOOLS Rotary |

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-------------------|---------------|------------------------|
| 16" | 13-3/8" | 48* (H-40, ST&C) | 120' | 100 sx or to surface |
| 11" | 8-5/8" | 24* (K-55, ST&C) | 2,500' | 1,125 sx or to surface |
| 7-7/8" | 5-1/2" | 15.5* (K-55 ST&C) | 6,520' | 550 sx or to 3,200' |

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present production 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* TITLE Consultant DATE 4-26-88

(This space for Federal or State office use) cc: Brune (3), MDO (3), SJRA, UDOGM (2)

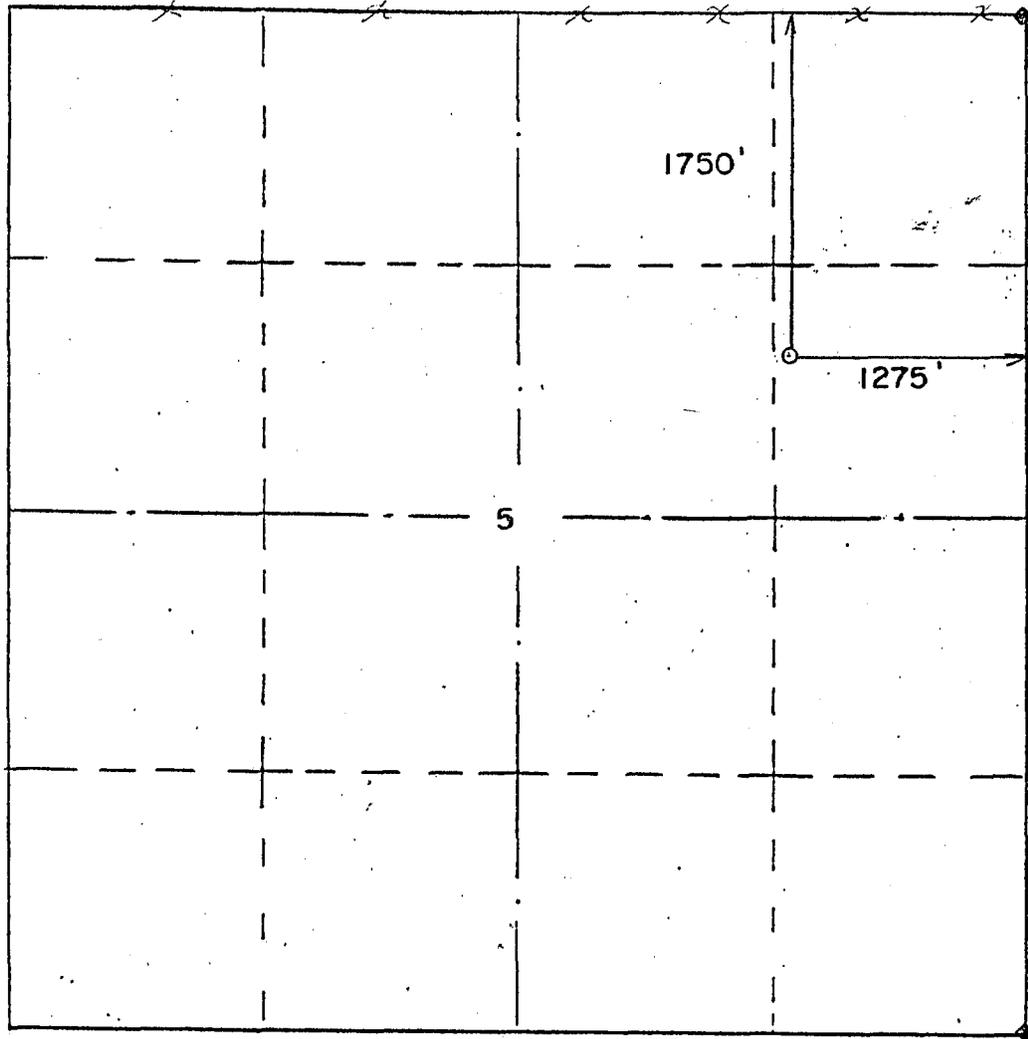
PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY /s/Gene Nodine TITLE District Manager DATE 5/11/88
CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED
*See Instructions On Reverse Side
FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

STATE OF UTAH - DOGM

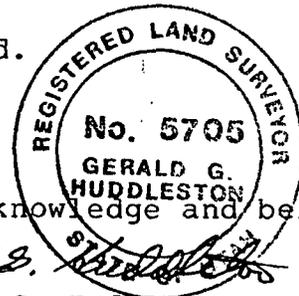
WELL LOCATION AND ACREAGE DEDICATION PLAT



1"=1000'

◆ cap

WELL LOCATION DESCRIPTION:
Samedan Oil, Lucky Lynn 1-5
1750'FNL & 1275'FEL
Section 5, T.37 S., R.23 E., SLM
San Juan County, Utah
5872'grd. elevation
Reference: N85 32'E, 472', 5896'grd.



The above plat is true and correct to my knowledge and belief.

16 March 1988

Gerald G. Huddleston, LS

Samedan Oil Corporation
Well No. Lucky Lynn 1-5
SEc. 5, T. 37 S., R. 23 E.
San Juan County, Utah
Lease U-58977

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 until we are formally notified by letter of the new bonded entity in reference to this Application for Permit to Drill.

A. DRILLING PROGRAM

BOP Specification and Testing:

All ram-type preventers will be tested to the rated working pressure of the stack or to 70% of the internal yield of the casing, whichever is less.

The annular-type preventer will be tested to 50% of its rated working pressure.

B. THIRTEEN-POINT SURFACE USE PLAN

All persons in the area who are associated with the project will be informed by the operator that they will be subject to prosecution for disturbing archaeological sites or collecting artifacts. If subsurface cultural material is exposed during construction, work at that spot will stop immediately and the Bureau of Land Management, San Juan Resource Area office will be contacted (801) 587-2141. The operator will be responsible for the cost of evaluation of the discovery and proper mitigation measures. Any decision as to proper mitigation shall be made by the authorized officer after consulting with the operator.

NOTIFICATIONS

Notify the San Juan Resource Area, at (801) 587-2141 for the following:

2 days prior to commencement of dirt work, construction or reclamation;

1 day prior to spudding;

Notify the Moab District Office, Branch of Fluid Minerals at (801) 259-6111 for the following:

No well abandonment operations will be commenced without the prior approval of the District Manager. In the case of newly drilled dry holes, and in emergency situations, verbal approval can be obtained by calling the following individuals, in the order listed:

Dale Manchester, Petroleum Engineer Office Phone: (801) 259-6111
Home Phone: (801) 259-6239

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

24 hours advance notice is required for all abandonments.

Lease No. U-58977

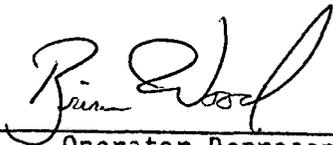
Well: Lucky Lynn 1-5

I Certify that Samedan Oil Corporation has reached an agreement with 3 affected landowners as to the requirements for the protection of surface resources and reclamation of disturbed areas and/or damages in lieu thereof. If an agreement has not been reached Samedan Oil Corporation will comply with the provisions of the law or regulations governing the Federal or Indian right of reentry to the surface (43 CFR 3814).

If access crosses private property, the operator will insure the Bureau of Land Management (BLM) has access across the private property including keys to any locked gates.

4-26-88

Date


Operator Representative

NOTE: Please include a map showing the access route that has received a cultural resources clearance.

Samedan Oil Corporation
Lucky Lynn 1-5
1750' FNL & 1275' FEL
Sec. 5, T. 37 S., R. 23 E.
San Juan County, Utah

PAGE 1

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 Oil Corporation will furnish a copy of these conditions to its field representative to assure compliance.

8 Point Drilling Program

1. ESTIMATED FORMATION TOPS

| <u>Formation Name</u> | <u>Depth from GL*</u> | <u>Depth from KB</u> | <u>Subsea Depth</u> |
|-----------------------|-----------------------|----------------------|---------------------|
| Dakota Ss | 000' | 12' | +5,872' |
| Morrison | 100' | 112' | +5,772' |
| Entrada Ss | 1,455' | 1,467' | +4,417' |
| Navajo Ss | 1,555' | 1,567' | +4,317' |
| Kayenta | 1,905' | 1,917' | +3,967' |
| Chinle | 2,405' | 2,417' | +3,467' |
| Moenkopi | 3,155' | 3,167' | +2,717' |
| Cutler | 3,335' | 3,347' | +2,537' |
| Hermosa | 5,235' | 5,247' | + 637' |
| Upper Ismay | 6,335' | 6,347' | - 463' |
| Lower Ismay | 6,495' | 6,507' | - 623' |
| Desert Creek | 6,575' | 6,587' | - 703' |
| Akah Shale | 6,675' | 6,687' | - 803' |
| Total Depth (TD) | 6,715' | 6,727' | - 843' |

* Ungraded ground level.

2. NOTABLE ZONES

Samedan Oil Corporation
Lucky Lynn 1-5
1750' FNL & 1275' FEL
Sec. 5, T. 37 S., R. 23 E.
San Juan County, Utah

PAGE 2

The estimated formation top depths from ungraded GL at which water, oil, gas, or other mineral bearing zones may be encountered are:

| <u>Possible Fresh Water Zones</u> | <u>Possible Uranium Zones</u> | <u>Possible Oil & Gas Zones</u> |
|-----------------------------------|-------------------------------|-------------------------------------|
| Entrada: 1,455' | Morrison: 100' | Upper Ismay: 6,335' |
| Navajo: 1,555' | Chinle: 2,405' | Desert Creek: 6,575' |

Water bearing zones will 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. PRESSURE CONTROL (Also see "5." on PAGE 4)

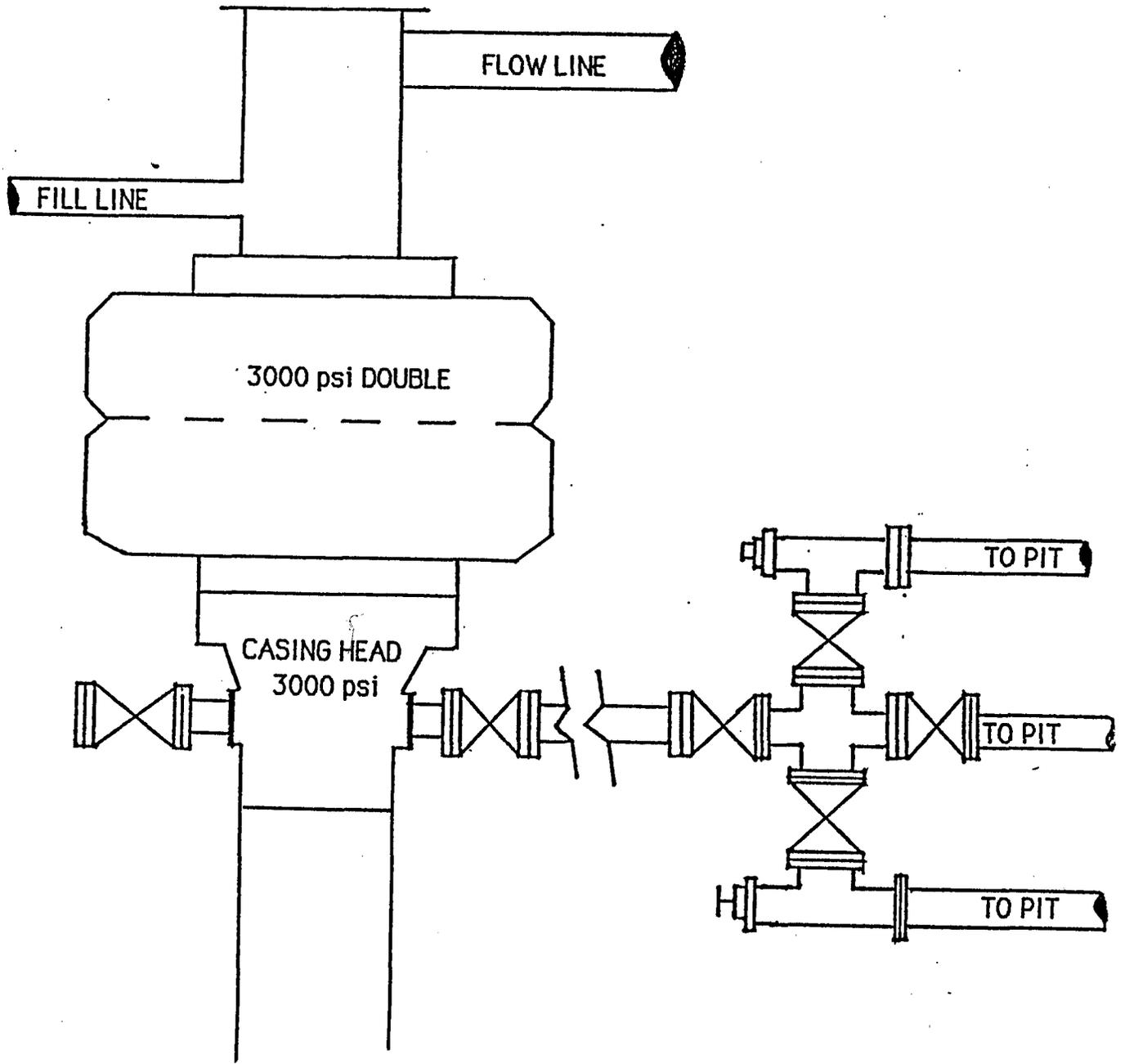
BOP systems will be consistent with API RP 53. An 11" 3,000 psi double ram and annular preventer with a 3,000 psi choke manifold will be used from the bottom of the surface casing (2,500') to TD (6,715'). A typical example of a 3,000 psi BOP is on Page 3. The actual model will not be known until the bid is let.

BOPs will be nipped up when intermediate casing is set. 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.

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

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San Juan County, Utah

PAGE 3



BLOWOUT PREVENTER

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 Lucky Lynn 1-5
 1750' FNL & 1275' FEL
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4. CASING & CEMENTING

| <u>Hole Size</u> | <u>O.D.</u> | <u>Weight</u> | <u>Grade</u> | <u>Type</u> | <u>Age</u> | <u>Setting Depth (GL)</u> |
|------------------|-------------|---------------|--------------|-------------|------------|---------------------------|
| 16" | 13-3/8" | 48# | H-40 | ST&C | New | 0'-120' |
| 11" | 8-5/8" | 24# | K-55 | ST&C | New | 0'-2,500' |
| 7-7/8" | 5-1/2" | 15.5# | K-55 | ST&C | New | 0'-6,715' |

Conductor Pipe (0-120'): Cement to surface with \approx 100 sx standard cement.

Surface Casing (0'-2,500'): Cement to surface with \approx 1,125 sx "Neat" (tail) and "Light" (lead).

Production Casing (0'-6,715'): Cement from TD (6,715') to 3,200' in one stage with \approx 550 sx. "Neat" will be used across producing zones and casing shoe. "Light" will be used for the remainder of the string.

5. MUD PROGRAM

| <u>Depth</u> | <u>Type</u> | <u>Weight (ppg)</u> | <u>Viscosity</u> | <u>Fluid Loss</u> |
|---------------|----------------------------|---------------------|------------------|-------------------|
| 0'-2,500' | Fresh water w/ floc & poly | 8.3-8.7 | 26-29 | NC |
| 2,500'-5,800' | Fresh water w/ floc & poly | 8.3-8.4 | 26-29 | NC |
| 5,800'-6,100' | Mud up as directed | | | |
| 6,100'-6,715' | Fresh water polymer mud | 8.8-9.2 | 34-40 | <15 cc |

6. CORING, TESTING, & LOGGING

No cores are planned. Cuttings will be collected every 30' from the surface to 5,000'. Cuttings will be collected every 10' from 5,000' to TD (6,715'). A two man mud logging unit will be on location from 5,000' to TD (6,715'). Drill stem tests may be run in the Upper Ismay and Desert Creek if good shows are found. The following logs may be run:

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PAGE 5

TD (6,715') to Surface (000'): DLL/GR
TD (6,715') to 5,000': MSFL
TD (6,715') to 5,000': FDC/CNL/GR
TD (6,715') to 2,500': BHC Sonic/GR

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 3162.4-1. 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. DOWNHOLE CONDITIONS

The maximum anticipated bottom hole pressure is 2,500 psi. No abnormal pressures, temperatures, or hydrogen sulfide are expected.

8. MISCELLANEOUS

The anticipated spud date is June 10, 1988. It is expected it will take 20 days to drill the well and 10 days to complete the well.

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.

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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.

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

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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 reclamation required by the approved APD or abandonment notice has been completed to the satisfaction of the Area Manager.

Once plugged, a regulation dry hole marker will be erected. The following legend will be beaded on with a welding torch: Samedan Oil Corporation, Lucky Lynn 1-5, SENE 5-37s-23e, U-58977.

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13 Point Surface Use Plan

1. EXISTING ROADS & DIRECTIONS (See PAGES 15-17)

From US 666 in Monticello, go south 17 mi. on US 191.
Then turn left and go northeast 2.1 mi. on gravel County Road #215.
Then turn right and go south 5.2 mi. on gravel County Road #207 (Mustang).
Then turn right and go 0.35 mi. west on a dirt road along the south edge of a wheat field and north of a fence
Then turn left through the fence and go 0.2 mi. southwest on a seismic trail.
Then bear left and go south 0.1 mi. on a seismic trail.
Then turn right and go 0.2 mi. west on a reclaimed seismic trail.
Then turn left and go south 200' on a new road to the well.

Existing roads are federal, county, and private. Samedan is applying for private rights-of-way for the last 0.85 mi of road. Only the private roads will need upgrading. Roads will be maintained to a standard at least equal to their present condition. An application for an Encroachment Permit has been approved by the San Juan County Road Department.

2. ROADS TO BE BUILT OR UPGRADED (See PAGE 17)

Dirt roads will be outsloped, except where noted. Maximum disturbance will be 30'. No culverts or grade or alignment changes are needed. Minimum 16' wide cattleguard, 16' wide wire gate, and 12" diameter cedar gate/brace posts will be installed at the fence crossing. No blading will take place for 100' on either side of a lath marking an archaeology site in SWNW Section 4. Maximum cut or fill will be 3'. Maximum grade will be 6%.

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Surface disturbance and vehicle travel will be limited to the approved location and road. Any additional area needed will be approved in advance by the Area Manager and landowner(s).

3. EXISTING WELLS

There are no injection, production, or disposal wells within 1 mile. There are several shallow unplugged seismic shot holes which have been kept open as potential water wells by the landowner.

4. PROPOSED PRODUCTION FACILITIES

The type and layout of the production facilities are not known now. A Sundry Notice will be submitted for approval before they are installed.

The tank battery will be surrounded by a dike of sufficient capacity to contain 150% of the storage capacity of the largest tank in the battery. All loading lines will be placed inside the dike.

Site security regulations in 43 CFR 3162.7-4 will be obeyed. All product lines entering or 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 and any production facilities. Meters will be housed and/or fenced. Oil and gas measurement facilities will be installed on the well pad. Meters will be calibrated in place before delivery begins. Meter accuracy

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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.

5. WATER SUPPLY (See PAGE 16)

Water will be trucked \approx 7 miles from Recapture Reservoir on BLM administered land in SWSW Sec. 7, T. 36 S., R. 23 E.. An Application (T63122) to Appropriate Water has been approved by the State of Utah Div. of Water Rights. The water hauler will contract with the San Juan Water Conservancy District. This is casual use.

6. CONSTRUCTION MATERIALS

Pad construction materials will be on lease native soil in place on the well pad. The use of materials under BLM jurisdiction will conform with 43 CFR 3610.1-3.

7. WASTE DISPOSAL

The reserve pit will be unlined. Over three-fifths of the capacity will be in cut. The pit will be fenced on 3 sides with 4 strands of barbed wire or 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 dries.

All trash will be placed in a portable trash cage. When full, it will be hauled to an approved landfill in Montezuma County, Colorado, or the

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Blanding dump. A burning permit is required for burning trash between May 1 and October 31. Call the San Juan County Sheriff at (801) 587-2237 for a burning permit. 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 the reserve pit for a period not to exceed 90 days after initial production. During the 90 day period an NTL-2B application will be submitted for the District Manager's approval of a permanent disposal method and site.

8. ANCILLARY FACILITIES

There will be no airstrip or formal camp. Three camper trailers may be on site for the company man, mud logger, 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, trash cage, access road onto the pad, parking, living facilities, and rig orientation. The top 12" of soil will be stockpiled north of the reserve pit and east of the pad.

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.

The reserve pit will be completely dry before it is backfilled. The reserve

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pit and that part of the pad not needed for production will be reclaimed. Reclamation will be in accordance with the agreements signed between Samedan and the respective landowners.

11. SURFACE OWNERS

All upgrading and construction will occur on private surface. No BLM administered surface is involved. The owners are:

Kelly Laws (S2SW4 33-36s-23e)
295 West 400 South
Blanding, Utah 84511
(801) 678-2474

Willard Guymon (W2NW4 4-37s-23e)
1461 East 6400 South
Salt Lake City, Utah 84121
(801) 278-8204

Eugene Guymon (NE4 5-37s-23e)
P.O. Box 117
Blanding, Utah 84511
(801) 678-2807

12. OTHER INFORMATION

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

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San Juan County, Utah**

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filed for approval for all changes of plans and other operations *per* 43 CFR 3162.3-2.

Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified *per* 43 CFR 3162.3-2.

If subsurface cultural materials are exposed during construction, work in that spot will stop immediately and the landowner and Resource Area will be called. Anyone disturbing archaeological sites or collecting artifacts, including arrowheads, is subject to prosecution.

This permit will be valid for one year from the date of approval. After it 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.

The Resource Area's mailing address is P.O. Box 7, Monticello, Utah 84535. The phone number is (801) 587-2141.

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. Hospital phone number is (801) 587-2116. Or dial 1-800-332-1911 from anywhere in San Juan County. The closest medically equipped helicopter is in Grand Junction, Colorado, at St. Mary's Hospital. Call (303) 244-2550.

13. REPRESENTATION AND CERTIFICATION

Anyone having questions concerning the APD should contact:

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

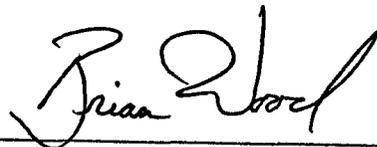
The field representative for Samedan Oil Corporation will be:

Gary Brune, Division Production Superintendent
Samedan Oil Corporation
1616 Glenarm Place, Suite 2550
Denver, Co. 80202-4371
(303) 534-0677

Home: (303) 779-5194

CERTIFICATION

I hereby certify that I 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.

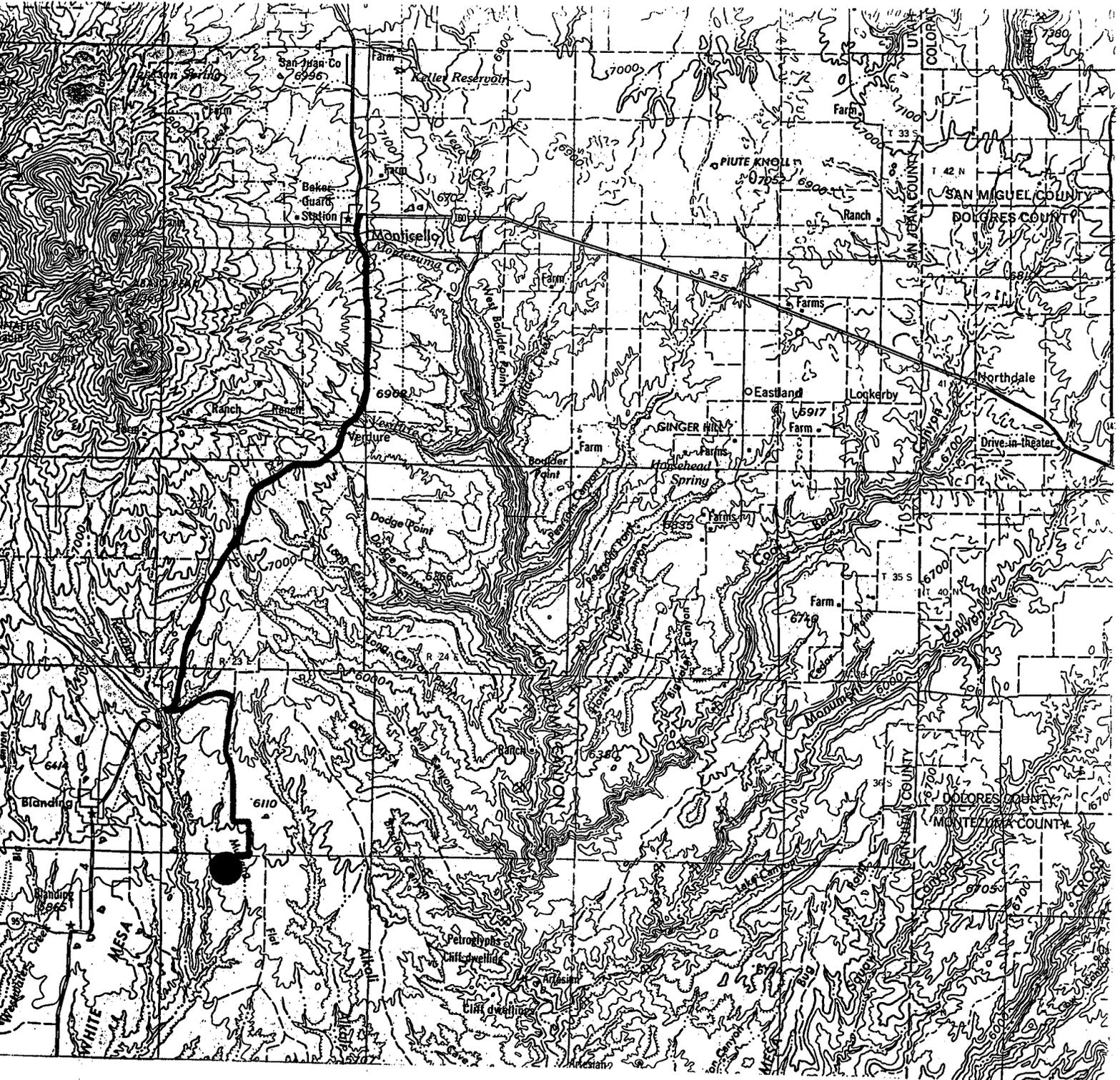


Brian Wood

April 26, 1988

Date

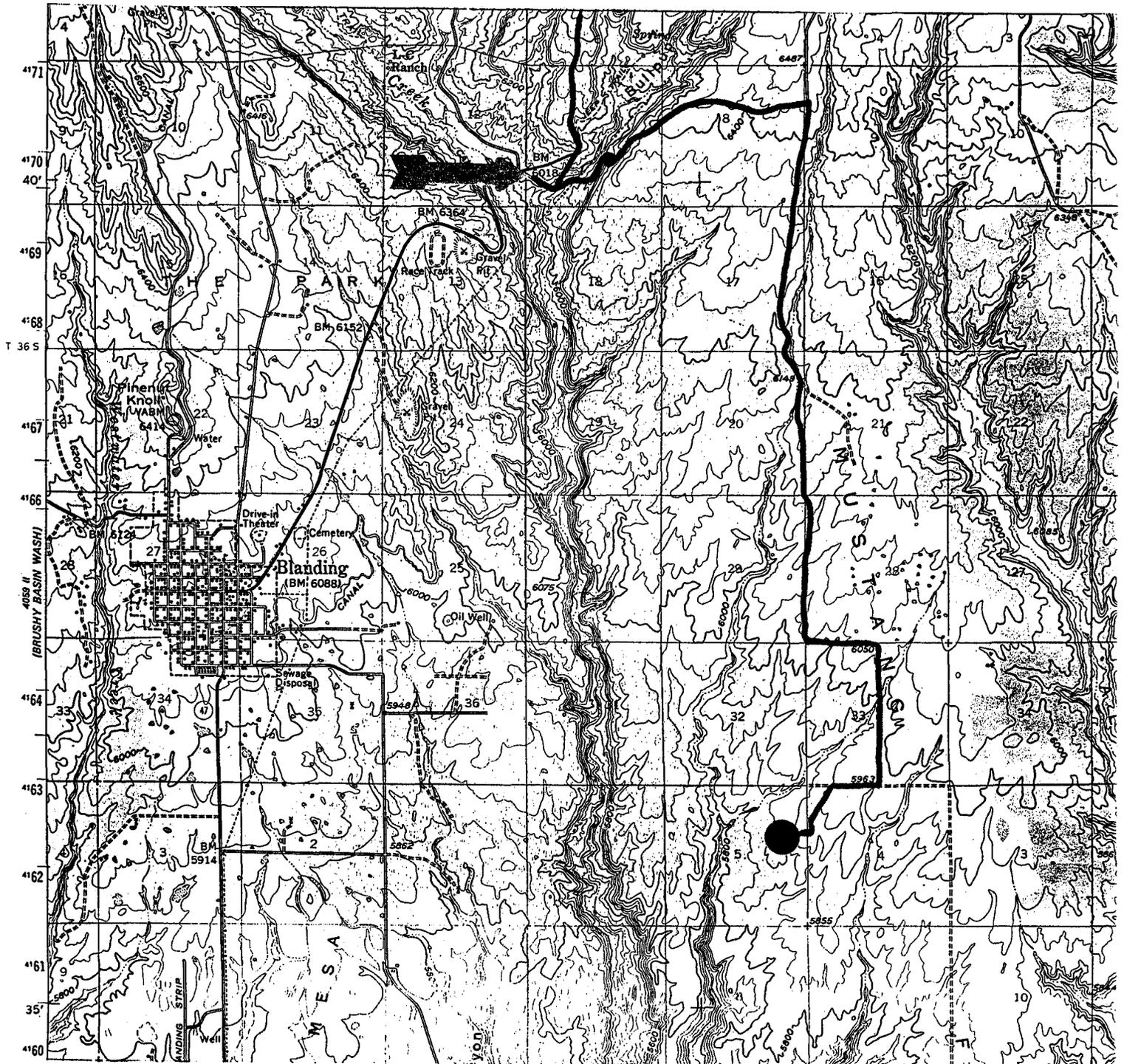
Samedan Oil Corporation
Lucky Lynn 1-5
1750' FNL & 1275' FEL
Sec. 5, T. 37 S., R. 23 E.
San Juan County, Utah



Proposed Well: ●

Access Route: ~

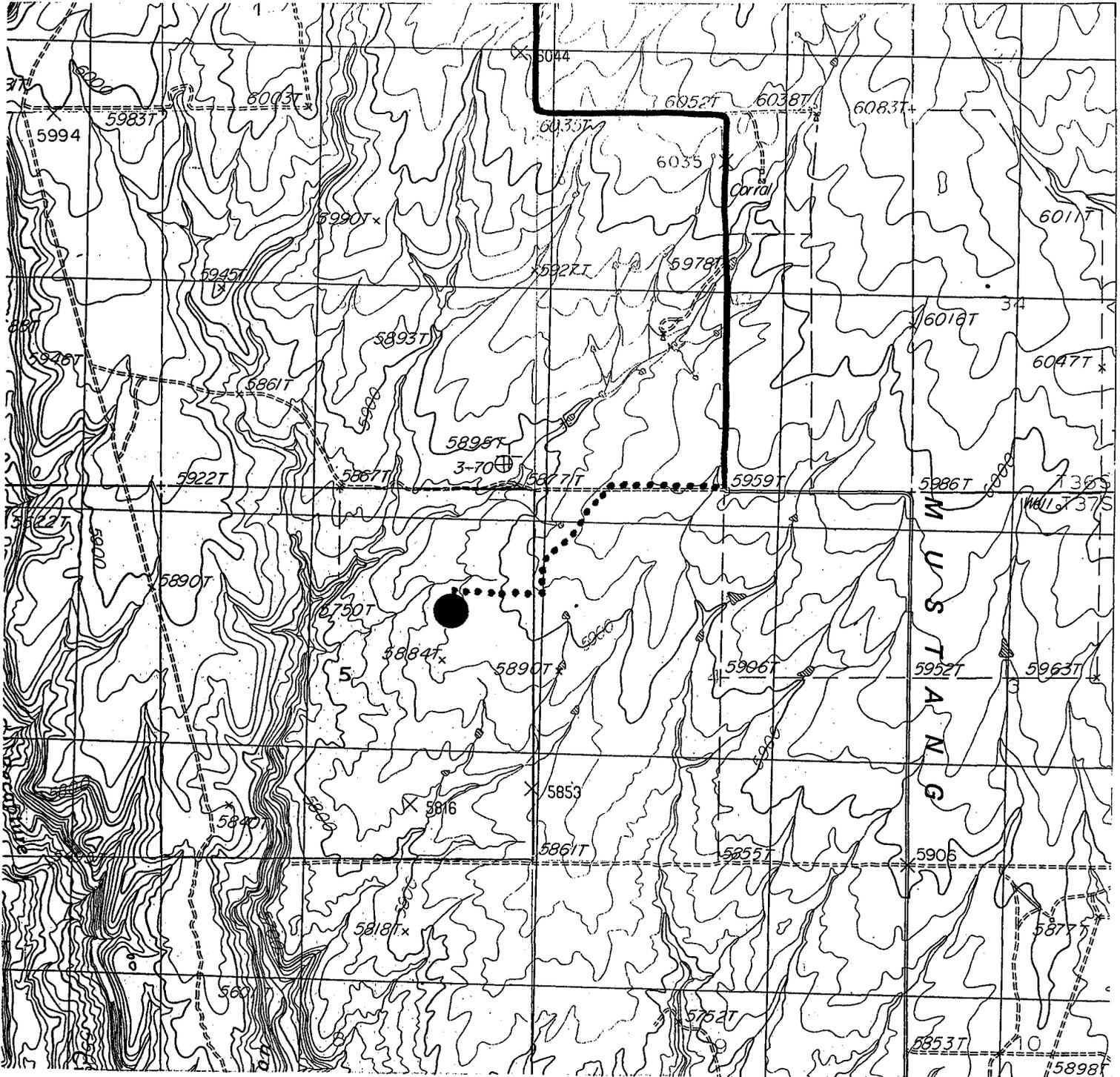
Samedan Oil Corporation
Lucky Lynn 1-5
1750' FNL & 1275' FEL
Sec. 5, T. 37 S., R. 23 E.
San Juan County, Utah



Proposed Well: ●

Access Route: ~~~~~

Water Source: →



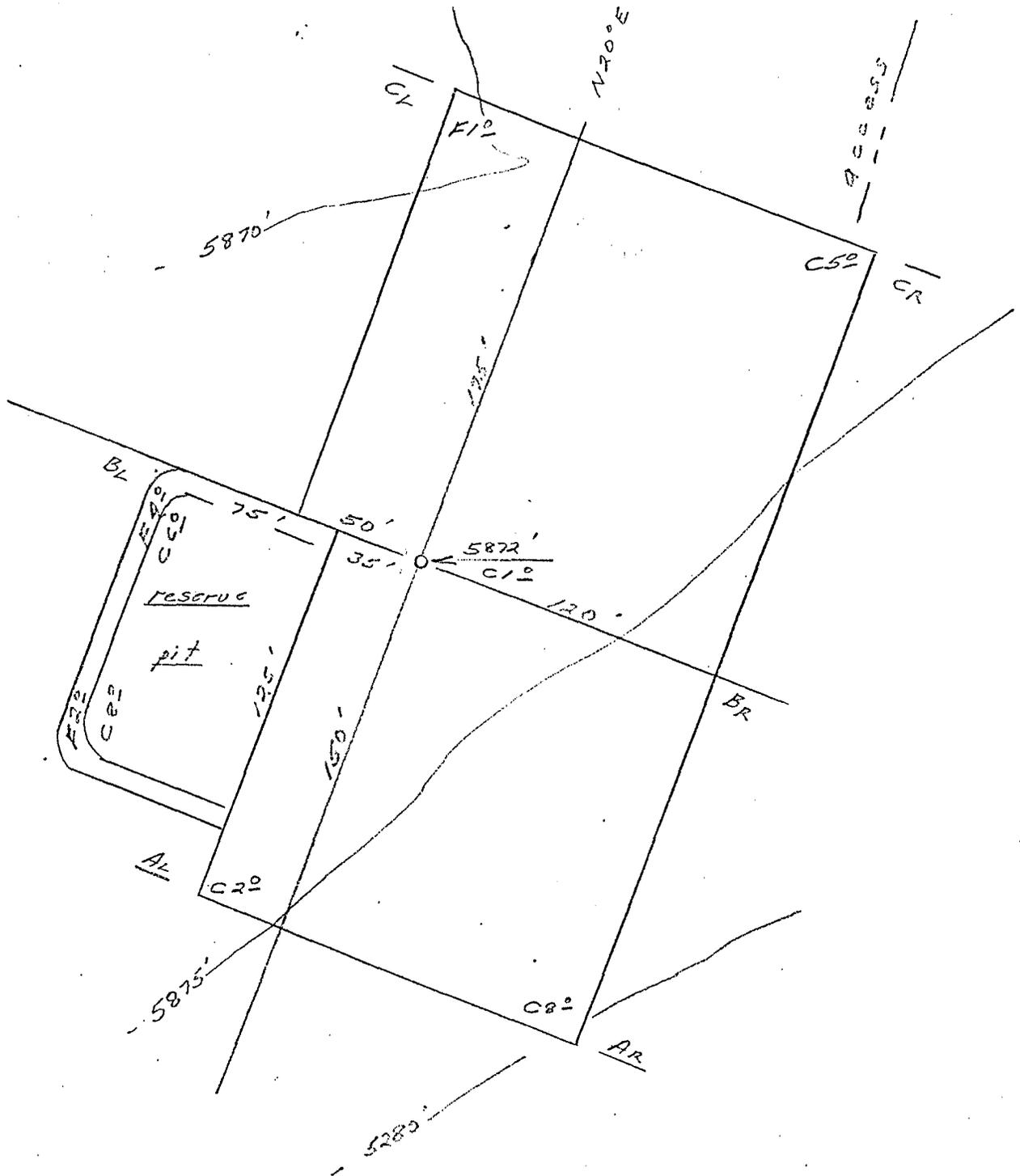
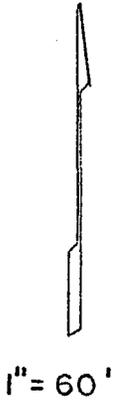
Proposed Well: ●

County Road: —

Private Road: ...

WELL PAD PLAN VIEW

Well Lucky Lynn 1-5

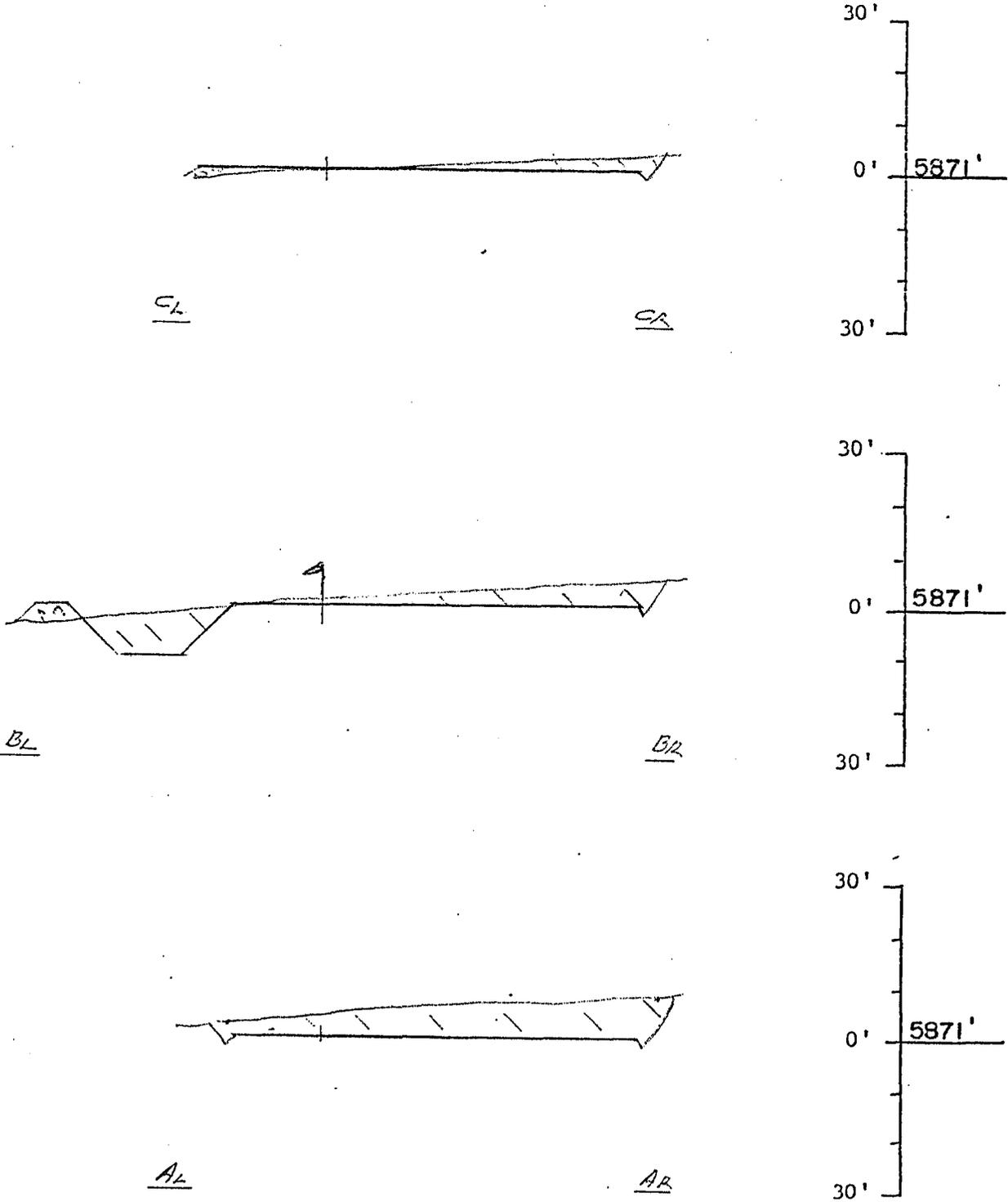


WELL PAD CROSS-SECTION

Lucky Lynn 1-5

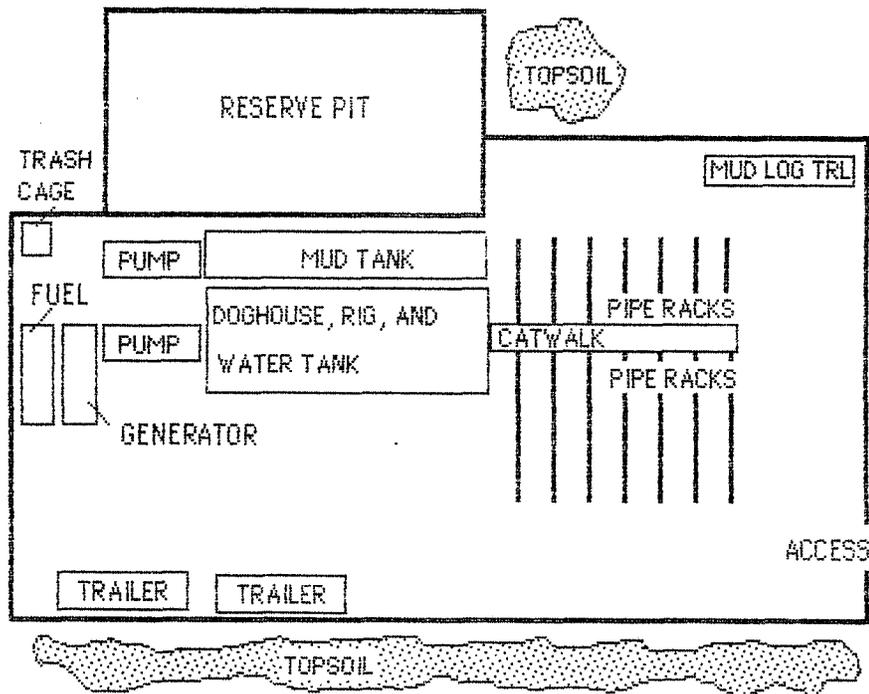
Cut *////*
Fill *○○○○*

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



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May 20, 1988

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

Gentlemen:

Re: Lucky Lynn 1-5 - SE NE Sec. 5, T. 37S, R. 23E
1750' FNL, 1275' FEL - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-3, Oil and Gas Conservation General Rules.

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

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form OGC-8-X.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-22, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations.

Page 2
Samedan Oil Corporation
Lucky Lynn 1-5
May 20, 1988

A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.

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 43-037-31422.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

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



State of Utah

Division of State History
(Utah State Historical Society)
Department of Community and Economic Development

Norman H. Bangerter
Governor

Max J. Evans
Director

300 Rio Grande
Salt Lake City, Utah 84101-1182

May 24, 1988

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

RE: Application for Permit to Drill, Samedan Oil Corp., Lucky Lynn #1-5,
Federal Lease U-58977 375 23E Sec. 5 43-037-31422

In Reply Please Refer to Case No. L104

Dear Mr. Baza:

The staff of the Utah State Historic Preservation Office reviewed the State Action form for the project referenced above. We have previously reviewed an archeological report, U-88-CH-070bp, produced by CASA (Complete Archeological Service Associates). We are able to concur with their determinations that sites 42Sa 19936, 19937, 19938 and 19939 are all potentially eligible for the National Register of Historic Places. We understand that all four sites will be avoided by the project activities.

We also concur with the archeological contractor's recommendations that fencing be placed between site 42Sa 19937 and the eastern edge of the Mustang #4 well pad. Also, that an archeological monitor be present during the construction of that well pad. We also recommend that a monitor be present during the construction of the access road, well pad, and any other construction associated with the Lucky Lynn #1-5. Site 42Sa 19936 is adjacent to the proposed access road. Any widening of that road may impact that site. If the sites can be successfully avoided, this office is able to concur with a determination of no effect for this project.

The above is provided on request as outlined by 36 CFR 800 or Utah Code, Title 63-18-37. If you have questions or need additional assistance, please contact Charles Shepherd at (801) 533-7039, or 533-6017.

Sincerely,

A. Kent Powell
Deputy State Historic
Preservation Officer

CMS:L104/5536V OR/DOEx4/NE

cc: Dale Davidson
cc: RDCC, SAI #UT880513-060

SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENTS

JIMMIE WALKER
Chairman

WILLIAM D. HOWELL
Executive Director

P. O. Drawer A1 • Price, Utah 84501 • Telephone 637-5444

AREAWIDE CLEARINGHOUSE A-95 REVIEW

NOI ___ Preapp ___ App ___ State Plan ___ State Action X Subdivision ___ (ASP # 5-59-10)

Other (indicate) _____ SAI Number UT880513-090

Applicant (Address, Phone Number):

Federal Funds:
Requested: _____

Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Title:

APPLICATION FOR PERMIT TO DRILL

Samedan Oil
Lucky Lynn #1-5
S-375-23E

Art.
43-037-31422

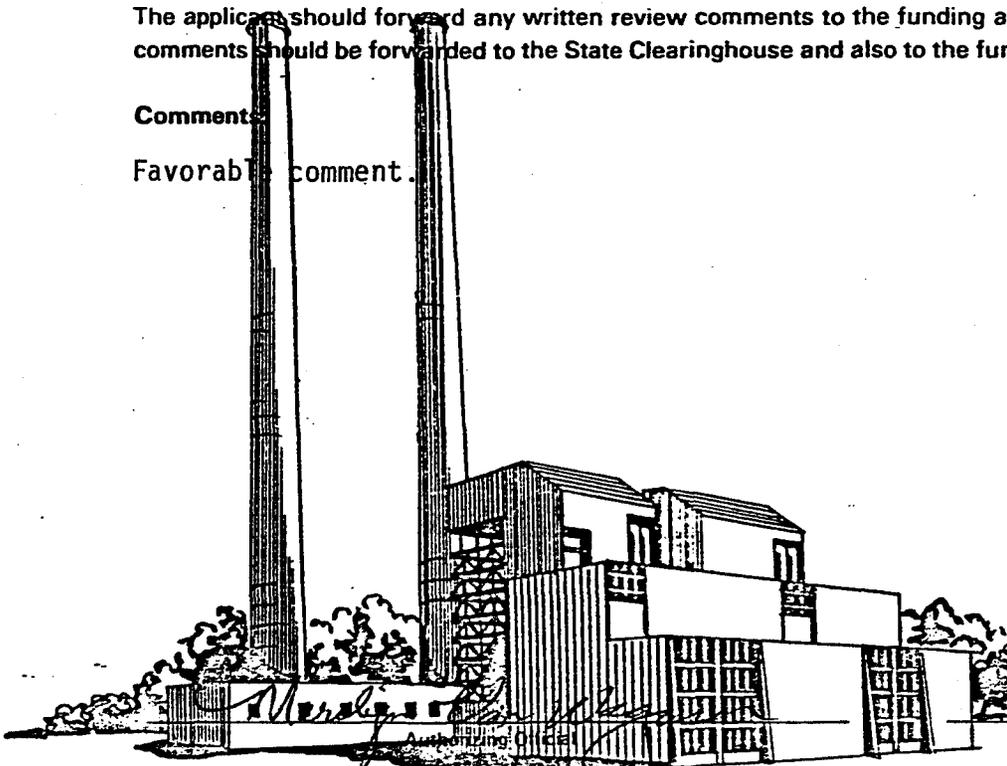
San Juan Co.

- No comment
- See comments below
- No action taken because of insufficient information
- Please send your formal application to us for review. Your attendance is requested

The applicant should forward any written review comments to the funding agency. Any written response to those comments should be forwarded to the State Clearinghouse and also to the funding agency.

Comments:

Favorable comment.



Date 5-25-88

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

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

5. LEASE DESIGNATION AND SERIAL NO

U-58977

6. INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

RECEIVED
JUN 27 1988

SUNDRY NOTICES AND REPORTS ON
(Do not use this form for proposals to drill or to deepen or plug back
Use "APPLICATION FOR PERMIT—" for such proposals)

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Samedan Oil Corporation (303) 534-0677 DIVISION OF OIL, GAS & MINING

8. FARM OR LEASE NAME

Lucky Lynn

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

9. WELL NO.

1-5

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
Surface: 1750' FNL & 1275' FEL (SENE) Bottom: Same

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

5-37s-23e SLBM

14. PERMIT NO.
43-037-31422

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5,872' GR

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.)*

Will delete conductor pipe from drilling program.

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

SIGNED

Brian Wood

TITLE

Consultant

DATE

6-25-88

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

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

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions
verse side)

Form approved
Budget Bureau No. 1001-1-1
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-58977

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug a well 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, Co. 80202**

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

Surface: 2150' FNL & 1600' FEL (SWNE) Bottom: Same

14. PERMIT NO. **43-037-31422**

15. ELEVATIONS (Show whether DF, RT, GR, etc.) **5,873' GR**

7. UNIT AGREEMENT NAME **N/A**

8. FARM OR LEASE NAME **Lucky Lynn**

9. WELL NO. **1-5**

10. FIELD AND POOL, OR WILDCAT **Wildcat**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA **5-37s-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:

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

- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- ABANDON*
- CHANGE PLANS

Move location

SUBSEQUENT REPORT OF:

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

- REPAIRING WELL
- ALTERING CASING
- ABANDONMENT*

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

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

New footages shown above in block 4. Well was originally approved @ 1750' FNL & 1275' FEL.

1. Federal lease is all of Section 5 (& part of Sec. 6), T. 37 S., R. 23 E., San Juan County, Utah.
2. Request exception to R615-3-2 because of geology (center stake is 20' E of a seis line). Exception is to Samedan's own quarter-quarter line, not to another well nor to another lease.
 - a) Orthodox well could be drilled at 1980 FNL & 1980 FEL, but it would be a dry hole
 - b) Request permission to drill at 2150' FNL & 1600' FEL Sec. 5, T. 37 S., R. 23 E., SLBM, Utah.
 - c) There are no existing wells which offset the proposed exception. Eight potential wells could offset the proposed location. All would be on this same Samedan lease.
 - d) Samedan is the lessee of all lands within a 1,600' radius.
 - e) Samedan is the lessee of all drilling units within a 1,600' radius.

Samedan Oil Corporation has the necessary consents from the proper lease owners to conduct lease operations in conjunction with this well. Bond coverage pursuant to 43 CFR 3104 for lease activities and operations is being provided by Samedan Oil Corporation.

Location moved because of new geologic data. No other change in previously approved APD. Same downhole & surface use programs will apply. New plats & maps attached.

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

SIGNED Bruce M. Jones

TITLE **Consultant**

DATE **10-24-88**

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

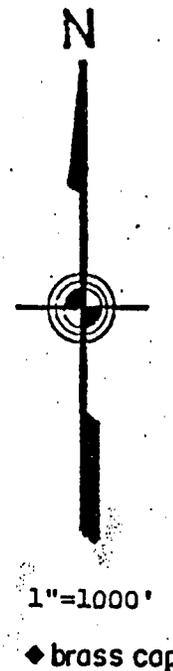
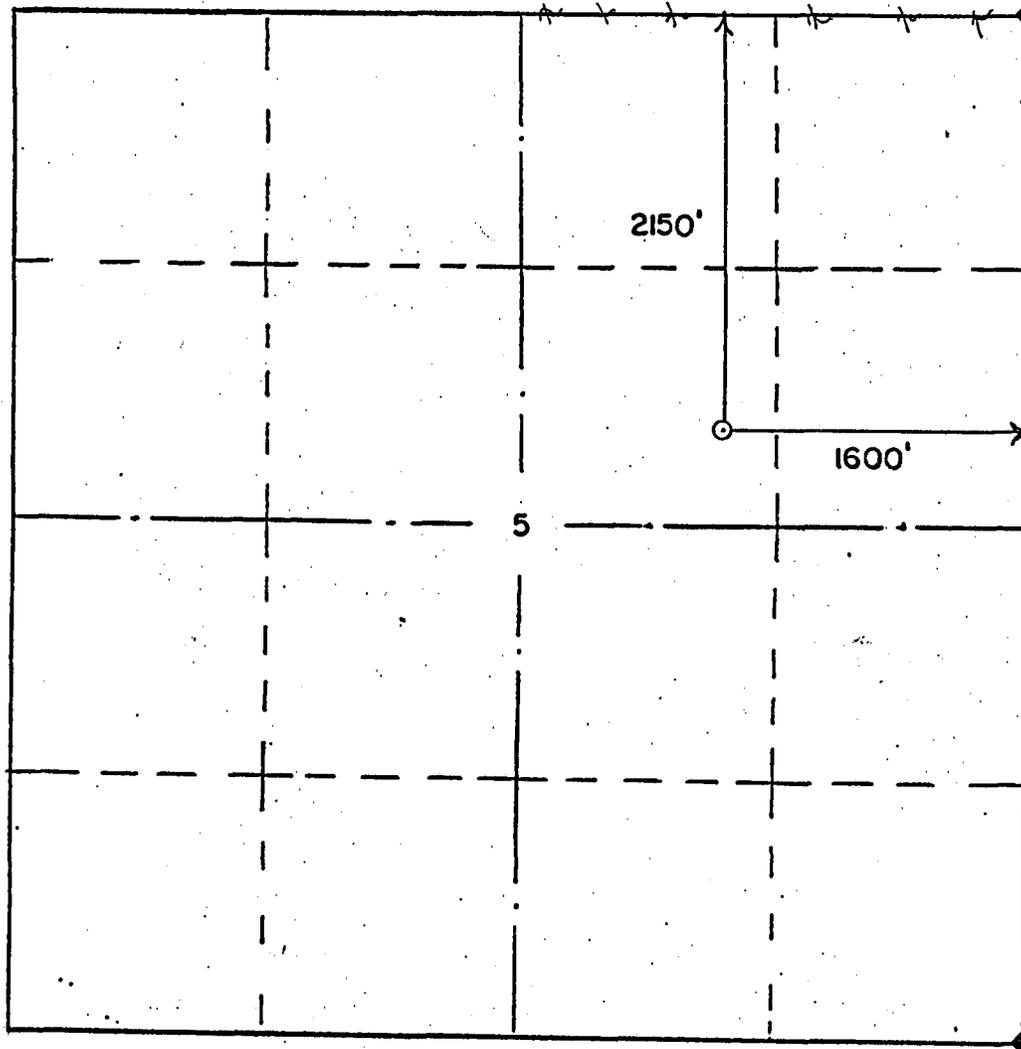
TITLE _____ DATE _____

APPROVED BY St. Bruno, MDC(3), SJRA, UDOGM(2)
OF UTAH DIVISION OF
OIL, GAS, AND MINING

*See Instructions on Reverse Side

DATE: 10-28-88

WELL LOCATION AND ACREAGE DEDICATION PLAT

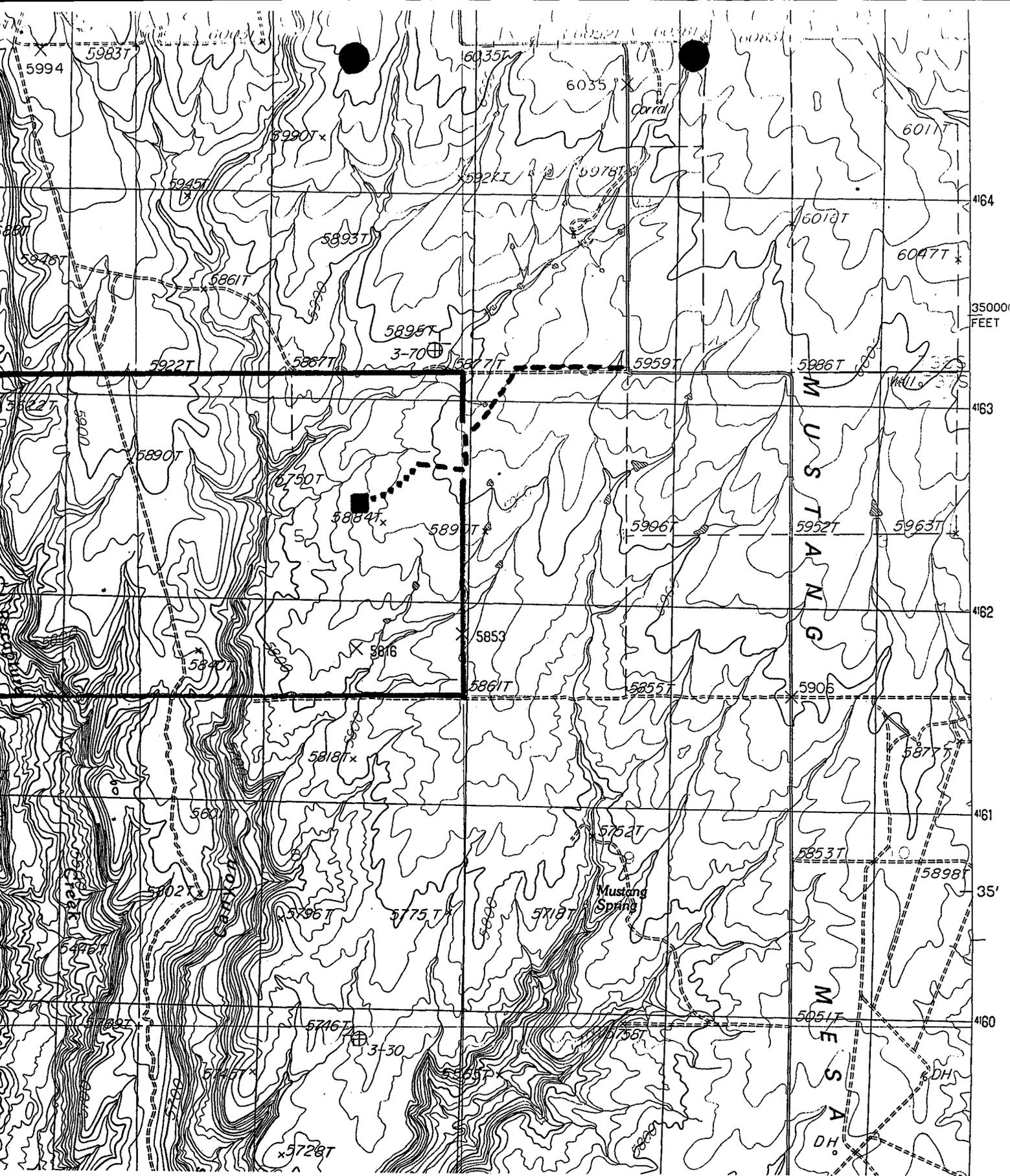


WELL LOCATION DESCRIPTION:
Samedan Oil, Lucky Lynn 1-5
2150'FNL & 1600'FEL
Section 5, T.37 S., R.23 E., SLM
San Juan County, Utah
5873' ground elevation
Reference: 1750'FNL & 1275'FEL, 5872' grd.

The above plat is true and correct to my knowledge and belief.

19 October 1988

Gerald G. Huddleston, LS



Proposed Lucky Lynn 1-5 Well: ■

Lease U-58977: 

Existing Jeep/Seismic Trail: - - -

All New Road Construction:

DIVISION OF OIL, GAS AND MINING

API NO. 43-037-31422

SPUDDING INFORMATION

NAME OF COMPANY: SAMEDAN OIL CORPORATION

WELL NAME: LUCKY LYNN #1-5

SECTION SWNE 5 TOWNSHIP 37S RANGE 23E COUNTY SAN JUAN

DRILLING CONTRACTOR EXETER

RIG # 68

SPUDED: DATE 11/15/88

TIME 10:30 p.m.

How ROTARY

DRILLING WILL COMMENCE _____

REPORTED BY SCOTT STEINKE

TELEPHONE # 303-534-0677

DATE 11/16/88

SIGNED TAS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions
verse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

U-58977

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Lucky Lynn

9. WELL NO.

#1-5

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

5-37S-23E SLBM

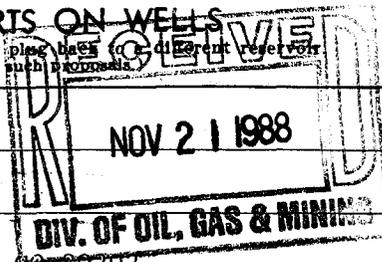
12. COUNTY OR PARISH 13. STATE

San Juan

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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



1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Samedan Oil Corporation

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: 2150' FNL; 1600' FEL (SWNE) Bottom: Same

14. PERMIT NO.

43-037-31422

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5,873' GR

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETION

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(Other) Spud Well

(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 above referenced well was spudded with rotary tools @ 10:30 PM 11/15/88.

I hereby certify that the foregoing is true and correct

SIGNED

Mary D. Folvag

TITLE

Production Secretary

DATE

11/17/88

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

DISTRIBUTION FOR TECHNICAL REPORTS

NOV 30 1988

| | |
|--|-------------------------|
| COMPANY Samedan Oil Corp. | WELL Lucky Lynn #1-5 |
| CUSTOMER Same | FIELD Wild Cat |
| COUNTY San Juan | STATE Utah |
| <input type="checkbox"/> THIS TEST ONLY <input checked="" type="checkbox"/> ALL TESTS ON THIS WELL | |
| FJ/S HAS BEEN REQUESTED TO FURNISH THE FOLLOWING COMPANIES WITH TECHNICAL REPORTS AS SHOWN AT LEFT | |

OIL, GAS & MINING

Samedan Oil Corp.
1616 Glenarm Place, Suite 2550
Denver, CO 80202
Attn: Dave Lambert

4

Meridian Oil, Inc.
5613 DTC Parkway
Englewood, CO 80111
Attn: Cindy Crawley

2

+

Axem Resources, Inc.
7800 E. Union Ave., Suite 1100
Denver, CO 80237
Attn: Jim Peterson

2

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

2

+

Celsius Energy
1125 17th St., Suite 2240
Denver, CO 80202
Attn: Paul Matheny

1

Division of Oil, Gas, & Mining
3 Triad Center, suite 350
Salt Lake City, UT 84180-1203

1

+

Duncan Exploration
1777 S. Harrison St., Penthouse One
Denver, CO 80210
Attn: Bob Lentz

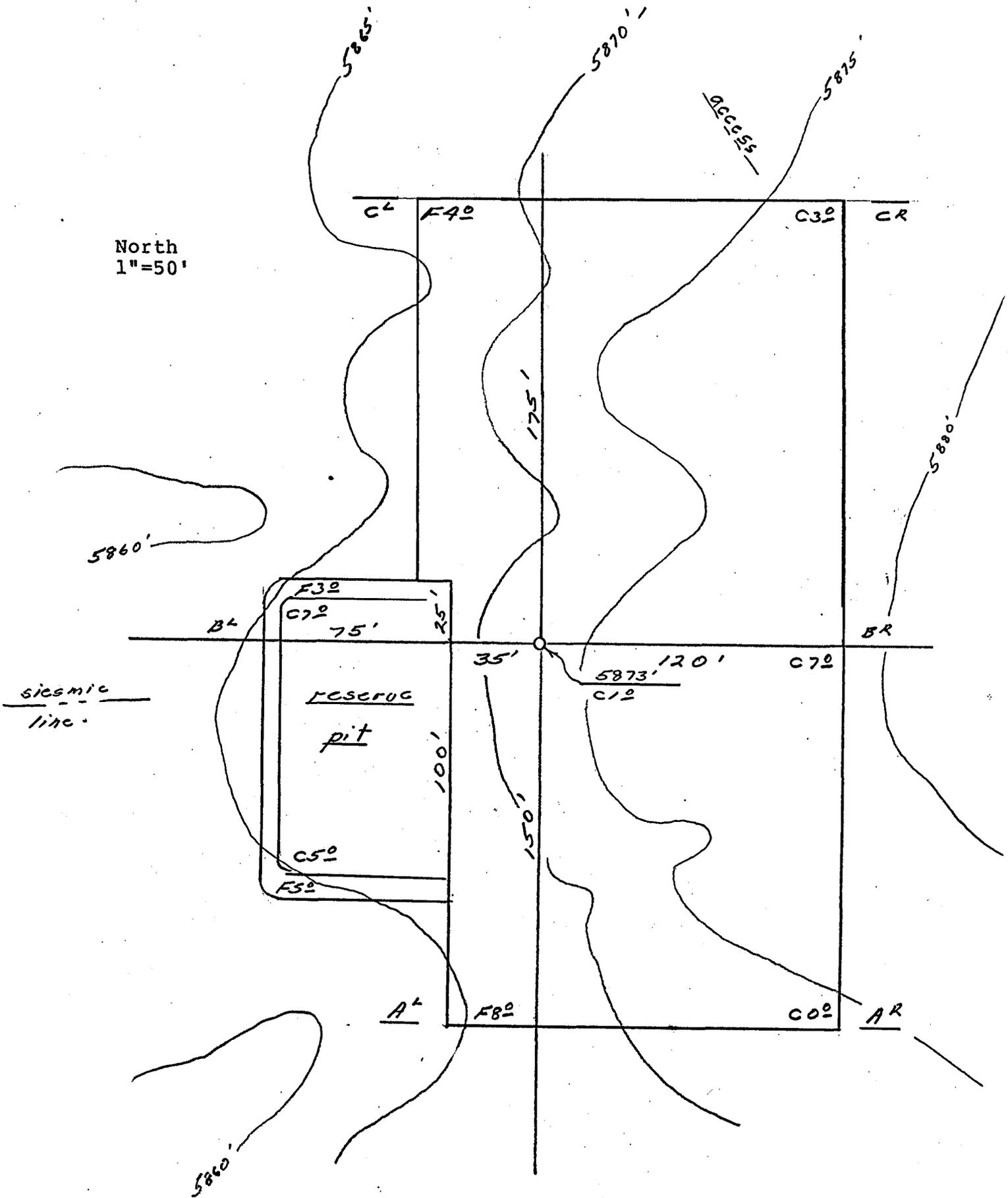
1

+

Plan View Sketch

Lucky Lynn # 1-5

North
1"=50'



Cross Section

Luck Lynn # 1-5

Cut ////
Fill

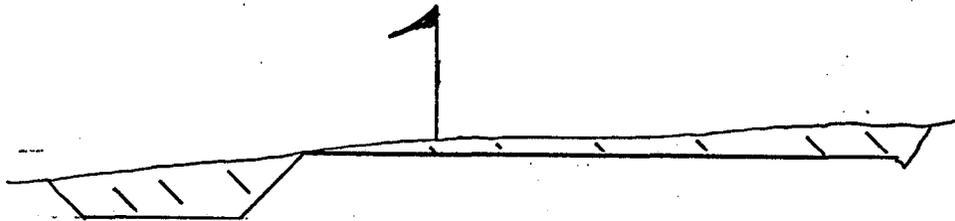
1"=50' Horz. & Vert.

C^L



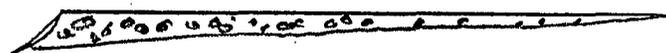
C^R

B^L



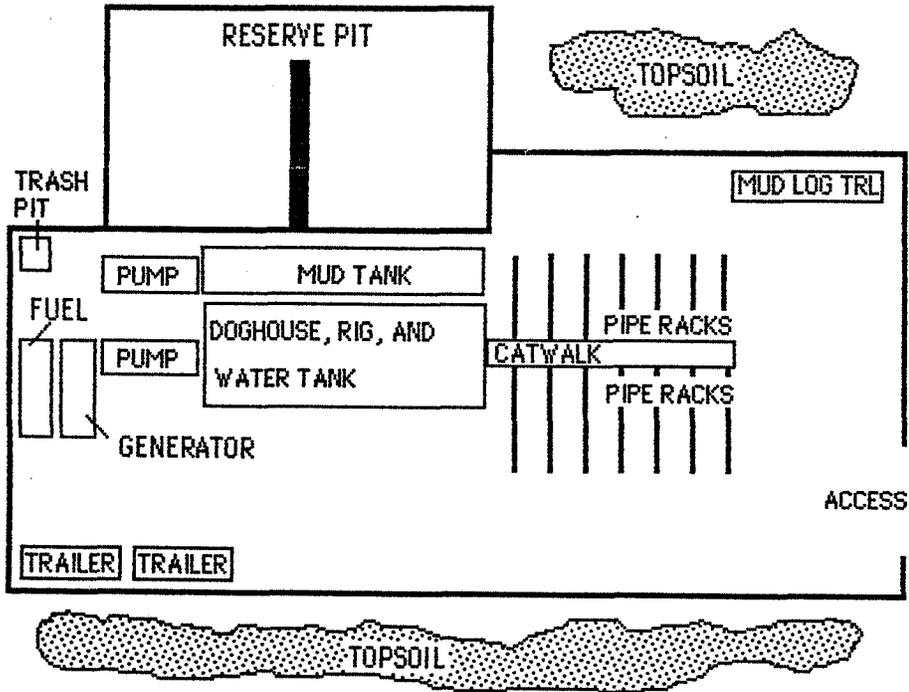
B^R

A^L



A^R

SAMEDAN OIL CORPORATION'S
LUCKY LYNN 1-5
2150' FNL & 1600' FEL 5-37s-23e
SAN JUAN COUNTY, UTAH



ORIGINAL APPROVAL TO PLUG AND ABANDON WELL

Operator Samedan Oil Corp.
Representative Scott Steinke Telephone No. Motel no. (801) 678-2278
rm. 122
Well Name and No. Lucky Lynn # 1-5
Location 1/4 1/4, Sec. 5 T. 37S R. 23E County San Juan
Lease Type (Federal, Tribal, State or Private) Federal
Has operator obtained proper Federal or Tribal approval? Yes - pending
T. D. 6664' Open hole from 2530' to 6664'

| <u>Hole Size</u> | <u>Casing Size</u> | <u>Set at</u> | <u>TOC</u> | <u>Pull Casing?</u> |
|------------------|--------------------|---------------|--------------|---------------------|
| <u>7 7/8"</u> | <u>8 5/8"</u> | <u>2530'</u> | <u>Surf.</u> | <u>no</u> |
| <u>—</u> | <u>open hole</u> | <u>—</u> | <u>—</u> | <u>—</u> |
| <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> |
| <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> |

| <u>Formation</u> | <u>Top</u> | <u>Base</u> | <u>Shows?</u> |
|---------------------|--------------|-------------|---------------|
| <u>U. Ismay</u> | <u>6294'</u> | <u>—</u> | <u>N</u> |
| <u>L. Ismay</u> | <u>6452'</u> | <u>—</u> | <u>N</u> |
| <u>Desert Creek</u> | <u>6536'</u> | <u>—</u> | <u>N</u> |
| <u>—</u> | <u>—</u> | <u>—</u> | <u>—</u> |

Plugging procedure:

- ① 6350' - 6050'
- ② 2630' - 2430' to cover casing shoe.
- ③ 50' surface plug.

Remarks: (DST's, LCZ's, Water flows, etc.)

Work to be performed tonight.

Approved by JRB Date 11-30-88 Time 3:40 pm

HALLIBURTON SERVICES JOB LOG

WELL NO. 1-5 LEASE LUCKY LYNN TICKET NO. 112012
 OPERATOR SAMEDAN PAGE NO. 1
 JOB TYPE P.T.A. DATE 12-1-88

FORM 2013 R-2

| CHART NO. | TIME | RATE (BPM) | VOLUME (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------|-------|---|----------------|--------|--|
| | | | | T | C | TUBING | CASING | |
| | 0100 | | | | | | | ON LOCATION - RIG CIRCULATING |
| | 0200 | | | | | | | SAFETY MEETING |
| | 0235 | | 10 | | | 400 | | START H ₂ O AHEAD |
| | | | | | | | | START CEMENT |
| | | | 25 | | | | | CMT. MIXED - |
| | | | 2 1/2 | | | | | PUMP H ₂ O BEHIND |
| | | | | | | | | PUMP MUD TO BALANCE PLUS |
| | 0250 | | 8 1/2 | | | 0 | | SHUT DOWN - PLUS BALANCED |
| | | | | | | | | 1 ST PLUS 6350' - 6050' (120 SACKS) |
| | | | | | | | | PULL DRILL PIPE TO 2630 FT. |
| | | | | | | | | (HOLE FILLED W/ RIG PUMP) |
| | 0530 | 3 | 10 | | | | | START H ₂ O AHEAD |
| | | 3 | | | | | | START CMT. |
| | | | 13 1/2 | | | | | CMT. MIXED |
| | | | 5 | | | | | PUMP H ₂ O BEHIND |
| | | | | | | | | PUMP MUD TO BALANCE |
| | 0547 | | 29 | | | 0 | | SHUT DOWN |
| | | | | | | | | 2 ND PLUS SET FROM 2630' - 2430' |
| | | | | | | | | PULL DRILL PIPE OUT OF HOLE |
| | 0815 | | 3 | | | | | SET A PLUS @ 50 FT. TO 0 |
| | 0825 | | | | | | | JOB COMPLETE! |
| | | | | | | | | THANKS SCOT, |
| | | | | | | | | DELL GUNN |

REPORT NO.
107298

PAGE NO. 1

TEST DATE:

27-NOV-1988

STAR™

A Schlumberger Transient Analysis Report Of A Schlumberger Drillstem Test

Schlumberger

43-037-31422

Company: **SAMEDAN OIL CORP.**

Well: **LUCKY LYNN 1-5**

TEST IDENTIFICATION

Test Type MFE OH DST
Test No. 1
Formation UPPER ISMAY
Test Interval (ft) ... 6316 - 6411
Reference Depth KELLY BUSHING

WELL LOCATION

Field WILD CAT
County SAN JUAN
State UTAH
Sec/Twn/Rng S5T37SR23E
Elevation (ft) 5885

HOLE CONDITIONS

Total Depth (MD/TUD)(ft) . 6411 / 6411
Hole Size (in) 7 7/8
Casing/Liner I.D. (in) ...
Perf'd Interu./Nt Pay(ft). -- / 21
Shot Density/Diameter(in).

MUD PROPERTIES

Mud Type GEL CHEM.
Mud Weight (lb/gal) 9.3
Mud Resistivity (ohm.m) .. 0.85 @ 80 DEG. F.
Filtrate Resistiv.(ohm.m). 0.80 @ 80 DEG. F.
Filtrate Chlorides (ppm) . 2750

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi). 3111
Gas Cushion Type NONE
Surface Pressure (psi) ... --
Liquid Cushion Type NONE
Cushion Length (ft) --

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D.(in). 5712 / 3.8
Collar Length ft/I.D.(in). 559 / 2.25
Packer Depths (ft) 6316
Bottomhole Choke Size(in). 15/16
Gauge Depth (ft)/Type 6322 / MECHANICAL

NET PIPE RECOVERY

| Volume | Fluid Type | Properties |
|--------|------------|--------------------------------------|
| 40 FT. | DRLG. MUD | TOP: RW=0.7@65DEG.F. 2700 PPM CL. |
| | | BTM: RW=0.6@56DEG.F. 3000 PPM CL. |
| | | |
| | | |

NET SAMPLE CHAMBER RECOVERY

| Volume | Fluid Type | Properties |
|-----------|------------|----------------------------------|
| 0.09 SCF | GAS | |
| 1840 CC | MUD | 0.6 @ 56 DEG. F. 3000 PPM CL. |
| | | |
| | | |
| Press. 33 | GOR: | GLR: |

VALIDATION RESULTS

Model of Behavior
Fluid Type Used
Reservoir Pressure (psi) .
Transmissivity (md.ft/cp)
Permeability (md)
Skin Factor/Damage Ratio .
Storativity Ratio
Interporosity Flow Coeff..
Distance to Anomaly (ft).
Investigation Radius (ft).
Potentiometric Surf. (ft).

ROCK/FLUID/WELLBORE PROPERTIES

Oil Density (deg. API) ...
Basic Solids (%)
Gas Gravity
Water Cut (%)
Viscosity (cp)
Tot. Compress. (1/psi) ...
Porosity (%) 7
Reservoir Temperature (F). 136
Form.Vol.Factor (bbl/STB).

PRODUCTION RATE DURING TEST: -

COMMENTS:

SEQUENCE OF EVENTS

Schlumberger

| EVENT NO. | DATE | TIME (HR:MIN) | DESCRIPTION | ELAPSED TIME (MIN) | BHP (PSIA) | BLOW (IN.-H2O) |
|-----------|--------|---------------|----------------------------|--------------------|------------|----------------|
| 1 | 27-NOV | 0400 | SET PACKERS | -1.00 | 3111 | |
| 2 | | 0402 | OPENED TOOL-1/4" BUBBLHOSE | 0.00 | 76 | 12" BLOW |
| | | 0412 | | | | 12" BLOW |
| 3 | | 0417 | CLOSED FOR INITIAL SHUT-IN | 15.33 | 56 | 12" BLOW |
| 4 | | 0447 | FINISHED SHUT-IN | 45.38 | 102 | |
| 5 | | 0448 | RE-OPENED TOOL | 46.00 | 56 | 3" BLOW |
| | | 0453 | | | | 6" BLOW |
| | | 0458 | | | | 6" BLOW |
| | | 0503 | | | | 5" BLOW |
| | | 0518 | | | | 5" BLOW |
| | | 0523 | | | | 4" BLOW |
| | | 0533 | | | | 4" BLOW |
| | | 0538 | | | | 3" BLOW |
| | | 0543 | | | | 3" BLOW |
| | | 0548 | | | | 2" BLOW |
| | | 0558 | | | | 2" BLOW |
| | | 0603 | | | | 1.5" BLOW |
| | | 0608 | | | | 1.5" BLOW |
| | | 0613 | | | | 1" BLOW |
| 6 | | 0618 | CLOSED FOR FINAL SHUT-IN | 145.76 | 64 | 1" BLOW |
| 7 | | 1018 | FINISHED SHUT-IN | 387.42 | 671 | |
| 8 | | 1020 | PULLED PACKERS LOOSE | 388.00 | 3111 | |
| | | | NOTE: NO FILL ON BOTTOM. | | | |
| | | | NO GAS TO SURFACE DURING | | | |
| | | | DST. NO PROBLEMS COMING | | | |
| | | | OFF BOTTOM. ECHOMETER | | | |
| | | | RECOVERY = 40 FT. | | | |

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 107298

COMPANY : SAMEDAN OIL CORP.

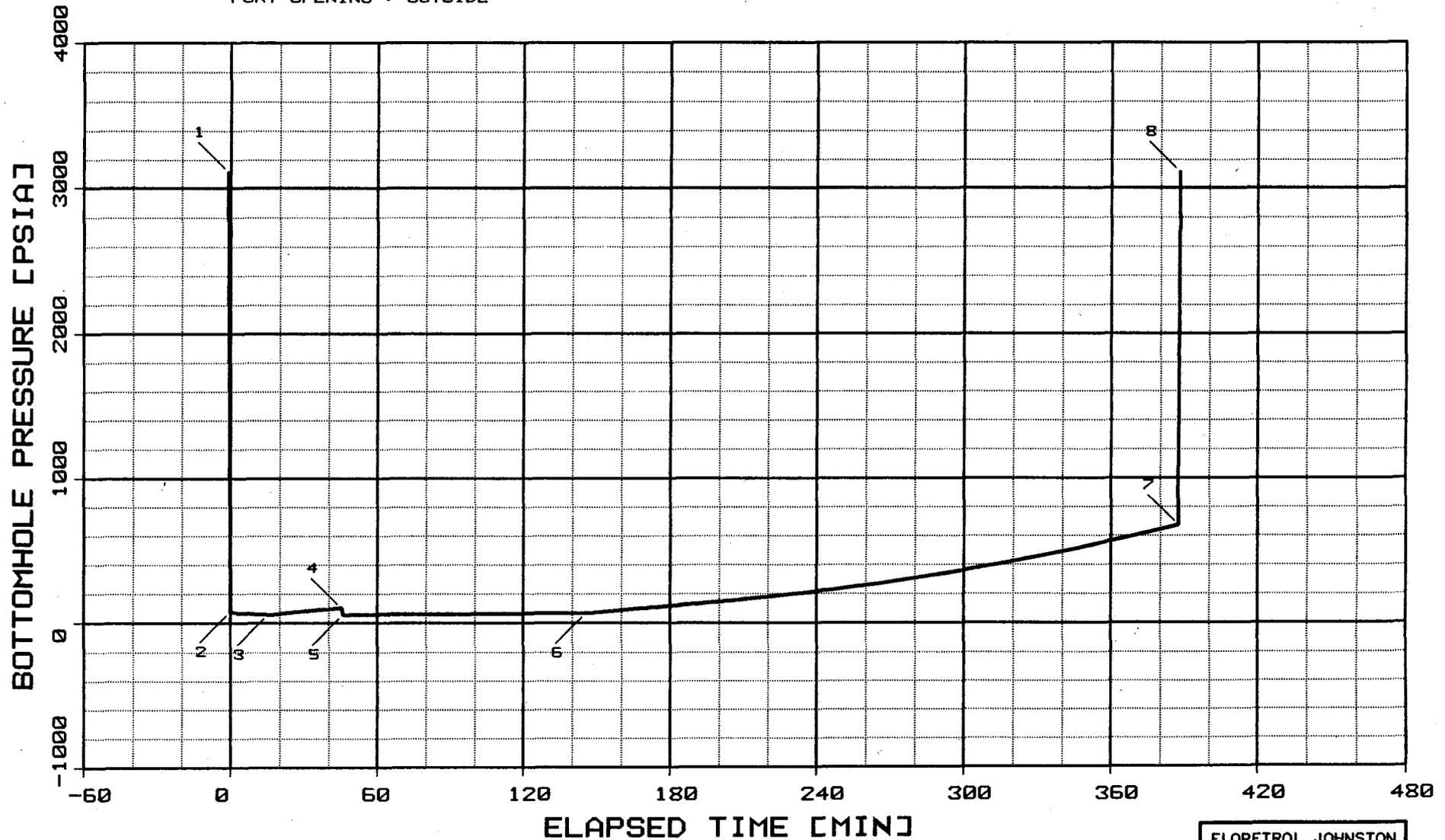
INSTRUMENT NO. J-903

WELL : LUCKY LYNN #1-5

DEPTH : 6322 FT

CAPACITY : 0 PSI

PORT OPENING : OUTSIDE



 * WELL TEST DATA PRINTOUT *

FIELD REPORT # : 107298

COMPANY : SAMEDAN OIL CORP.
 WELL : LUCKY LYNN #1-5

INSTRUMENT # : J-903
 CAPACITY [PSI] : 0.
 DEPTH [FT] : 6322.0
 PORT OPENING : OUTSIDE
 TEMPERATURE [DEG F] : 136.0

LABEL POINT INFORMATION

| # | TIME OF DAY HH:MM:SS | DATE DD-MM | EXPLANATION | ELAPSED TIME, MIN | BOT HOLE PRESSURE PSIA |
|---|-------------------------|---------------|-----------------------------|-------------------|---------------------------|
| 1 | 4: 1: 0 | 27 | NO HYDROSTATIC MUD | -1.00 | 3111 |
| 2 | 4: 2: 0 | 27 | NO START FLOW | 0.00 | 76 |
| 3 | 4:17:20 | 27 | NO END FLOW & START SHUT-IN | 15.33 | 56 |
| 4 | 4:47:23 | 27 | NO END SHUT-IN | 45.38 | 102 |
| 5 | 4:48: 0 | 27 | NO START FLOW | 46.00 | 56 |
| 6 | 6:27:46 | 27 | NO END FLOW & START SHUT-IN | 145.76 | 64 |
| 7 | 10:29:25 | 27 | NO END SHUT-IN | 387.42 | 671 |
| 8 | 10:30: 0 | 27 | NO HYDROSTATIC MUD | 388.00 | 3111 |

SUMMARY OF FLOW PERIODS

| PERIOD | START ELAPSED TIME, MIN | END ELAPSED TIME, MIN | DURATION MIN | START PRESSURE PSIA | END PRESSURE PSIA |
|--------|-------------------------|-----------------------|--------------|---------------------|-------------------|
| 1 | 0.00 | 15.33 | 15.33 | 76 | 56 |
| 2 | 46.00 | 145.76 | 99.76 | 56 | 64 |

SUMMARY OF SHUTIN PERIODS

| PERIOD | START ELAPSED TIME, MIN | END ELAPSED TIME, MIN | DURATION MIN | START PRESSURE PSIA | END PRESSURE PSIA | FINAL FLOW PRESSURE PSIA | PRODUCING TIME, MIN |
|--------|-------------------------|-----------------------|--------------|---------------------|-------------------|--------------------------|---------------------|
| 1 | 15.33 | 45.38 | 30.05 | 56 | 102 | 56 | 15.33 |
| 2 | 145.76 | 387.42 | 241.66 | 64 | 671 | 64 | 115.09 |

TEST PHASE : FLOW PERIOD # 1

| TIME OF DAY HH:MM:SS | DATE DD-MM | ELAPSED TIME,MIN | DELTA TIME,MIN | BOT HOLE PRESSURE PSIA |
|-------------------------|---------------|------------------|----------------|---------------------------|
| 4: 2: 0 | 27-NO | 0.00 | 0.00 | 76 |
| 4: 7: 0 | 27-NO | 5.00 | 5.00 | 66 |
| 4:12: 0 | 27-NO | 10.00 | 10.00 | 60 |
| 4:17: 0 | 27-NO | 15.00 | 15.00 | 56 |
| 4:17:20 | 27-NO | 15.33 | 15.33 | 56 |

TEST PHASE : SHUTIN PERIOD # 1
 FINAL FLOW PRESSURE [PSIA] = 56
 PRODUCING TIME [MIN] = 15.33

| TIME OF DAY HH:MM:SS | DATE DD-MM | ELAPSED TIME,MIN | DELTA TIME,MIN | BOT HOLE PRESSURE PSIA | DELTA P PSI | LOG HORNER TIME |
|-------------------------|---------------|------------------|----------------|---------------------------|----------------|-----------------|
| 4:17:20 | 27-NO | 15.33 | 0.00 | 56 | 0 | |
| 4:18:20 | 27-NO | 16.33 | 1.00 | 56 | 0 | 1.213 |
| 4:19:20 | 27-NO | 17.33 | 2.00 | 57 | 1 | 0.938 |
| 4:20:20 | 27-NO | 18.33 | 3.00 | 59 | 3 | 0.786 |
| 4:21:20 | 27-NO | 19.33 | 4.00 | 61 | 5 | 0.684 |
| 4:22:20 | 27-NO | 20.33 | 5.00 | 63 | 7 | 0.609 |
| 4:23:20 | 27-NO | 21.33 | 6.00 | 65 | 9 | 0.551 |
| 4:24:20 | 27-NO | 22.33 | 7.00 | 67 | 11 | 0.504 |
| 4:25:20 | 27-NO | 23.33 | 8.00 | 68 | 12 | 0.465 |
| 4:26:20 | 27-NO | 24.33 | 9.00 | 70 | 14 | 0.432 |
| 4:27:20 | 27-NO | 25.33 | 10.00 | 72 | 16 | 0.404 |
| 4:29:20 | 27-NO | 27.33 | 12.00 | 76 | 20 | 0.357 |
| 4:31:20 | 27-NO | 29.33 | 14.00 | 79 | 23 | 0.321 |
| 4:33:20 | 27-NO | 31.33 | 16.00 | 82 | 26 | 0.292 |
| 4:35:20 | 27-NO | 33.33 | 18.00 | 85 | 29 | 0.268 |
| 4:37:20 | 27-NO | 35.33 | 20.00 | 88 | 32 | 0.247 |
| 4:39:20 | 27-NO | 37.33 | 22.00 | 90 | 34 | 0.230 |
| 4:41:20 | 27-NO | 39.33 | 24.00 | 93 | 37 | 0.215 |
| 4:43:20 | 27-NO | 41.33 | 26.00 | 95 | 39 | 0.201 |
| 4:45:20 | 27-NO | 43.33 | 28.00 | 99 | 43 | 0.190 |
| 4:47:20 | 27-NO | 45.33 | 30.00 | 102 | 46 | 0.179 |
| 4:47:23 | 27-NO | 45.38 | 30.05 | 102 | 46 | 0.179 |

TEST PHASE : FLOW PERIOD # 2

| TIME OF DAY | DATE | ELAPSED TIME,MIN | DELTA TIME,MIN | BOT HOLE PRESSURE PSIA |
|-------------|-------|------------------|----------------|------------------------|
| HH:MM:SS | DD-MM | ***** | ***** | ***** |
| 4:48: 0 | 27-NO | 46.00 | 0.00 | 56 |
| 4:53: 0 | 27-NO | 51.00 | 5.00 | 55 |
| 4:58: 0 | 27-NO | 56.00 | 10.00 | 56 |
| 5: 3: 0 | 27-NO | 61.00 | 15.00 | 58 |
| 5: 8: 0 | 27-NO | 66.00 | 20.00 | 58 |
| 5:13: 0 | 27-NO | 71.00 | 25.00 | 58 |
| 5:18: 0 | 27-NO | 76.00 | 30.00 | 59 |
| 5:23: 0 | 27-NO | 81.00 | 35.00 | 59 |
| 5:28: 0 | 27-NO | 86.00 | 40.00 | 60 |
| 5:33: 0 | 27-NO | 91.00 | 45.00 | 60 |
| 5:38: 0 | 27-NO | 96.00 | 50.00 | 60 |
| 5:43: 0 | 27-NO | 101.00 | 55.00 | 61 |
| 5:48: 0 | 27-NO | 106.00 | 60.00 | 62 |
| 5:53: 0 | 27-NO | 111.00 | 65.00 | 62 |
| 5:58: 0 | 27-NO | 116.00 | 70.00 | 63 |
| 6: 3: 0 | 27-NO | 121.00 | 75.00 | 64 |
| 6: 8: 0 | 27-NO | 126.00 | 80.00 | 64 |
| 6:13: 0 | 27-NO | 131.00 | 85.00 | 64 |
| 6:18: 0 | 27-NO | 136.00 | 90.00 | 64 |
| 6:23: 0 | 27-NO | 141.00 | 95.00 | 64 |
| 6:27:46 | 27-NO | 145.76 | 99.76 | 64 |

TEST PHASE : SHUTIN PERIOD # 2
 FINAL FLOW PRESSURE [PSIA] = 64
 PRODUCING TIME [MIN] = 115.09

| TIME OF DAY | DATE | ELAPSED TIME,MIN | DELTA TIME,MIN | BOT HOLE PRESSURE PSIA | DELTA P PSI | LOG HORNER TIME |
|-------------|-------|------------------|----------------|------------------------|-------------|-----------------|
| HH:MM:SS | DD-MM | ***** | ***** | ***** | ***** | ***** |
| 6:27:46 | 27-NO | 145.76 | 0.00 | 64 | 0 | |
| 6:28:46 | 27-NO | 146.76 | 1.00 | 65 | 1 | 2.065 |
| 6:29:46 | 27-NO | 147.76 | 2.00 | 66 | 2 | 1.767 |
| 6:30:46 | 27-NO | 148.76 | 3.00 | 68 | 4 | 1.595 |
| 6:31:46 | 27-NO | 149.76 | 4.00 | 70 | 6 | 1.474 |
| 6:32:46 | 27-NO | 150.76 | 5.00 | 71 | 7 | 1.381 |
| 6:33:46 | 27-NO | 151.76 | 6.00 | 73 | 9 | 1.305 |
| 6:34:46 | 27-NO | 152.76 | 7.00 | 74 | 10 | 1.242 |
| 6:35:46 | 27-NO | 153.76 | 8.00 | 76 | 12 | 1.187 |
| 6:36:46 | 27-NO | 154.76 | 9.00 | 78 | 14 | 1.139 |
| 6:37:46 | 27-NO | 155.76 | 10.00 | 79 | 15 | 1.097 |
| 6:39:46 | 27-NO | 157.76 | 12.00 | 83 | 19 | 1.025 |
| 6:41:46 | 27-NO | 159.76 | 14.00 | 85 | 21 | 0.965 |
| 6:43:46 | 27-NO | 161.76 | 16.00 | 88 | 24 | 0.913 |
| 6:45:46 | 27-NO | 163.76 | 18.00 | 92 | 28 | 0.869 |
| 6:47:46 | 27-NO | 165.76 | 20.00 | 94 | 30 | 0.830 |
| 6:49:46 | 27-NO | 167.76 | 22.00 | 97 | 33 | 0.795 |

TEST PHASE : SHUTIN PERIOD # 2
 FINAL FLOW PRESSURE [PSIA] = 64
 PRODUCING TIME [MIN] = 115.09

| TIME OF DAY | DATE | ELAPSED TIME,MIN | DELTA TIME,MIN | BOT HOLE PRESSURE PSIA | DELTA P PSI | LOG HORNER TIME |
|----------------|-------|---------------------|-------------------|------------------------------|----------------|-----------------------|
| HH:MM:SS | DD-MM | ***** | ***** | ***** | ***** | ***** |
| 6:51:46 | 27-NO | 169.76 | 24.00 | 100 | 36 | 0.763 |
| 6:53:46 | 27-NO | 171.76 | 26.00 | 103 | 39 | 0.735 |
| 6:55:46 | 27-NO | 173.76 | 28.00 | 105 | 41 | 0.708 |
| 6:57:46 | 27-NO | 175.76 | 30.00 | 108 | 44 | 0.685 |
| 7: 2:46 | 27-NO | 180.76 | 35.00 | 115 | 51 | 0.632 |
| 7: 7:46 | 27-NO | 185.76 | 40.00 | 123 | 59 | 0.589 |
| 7:12:46 | 27-NO | 190.76 | 45.00 | 129 | 65 | 0.551 |
| 7:17:46 | 27-NO | 195.76 | 50.00 | 136 | 72 | 0.519 |
| 7:22:46 | 27-NO | 200.76 | 55.00 | 144 | 80 | 0.490 |
| 7:27:46 | 27-NO | 205.76 | 60.00 | 152 | 88 | 0.465 |
| 7:32:46 | 27-NO | 210.76 | 65.00 | 161 | 97 | 0.443 |
| 7:37:46 | 27-NO | 215.76 | 70.00 | 171 | 107 | 0.422 |
| 7:42:46 | 27-NO | 220.76 | 75.00 | 178 | 114 | 0.404 |
| 7:47:46 | 27-NO | 225.76 | 80.00 | 187 | 123 | 0.387 |
| 7:52:46 | 27-NO | 230.76 | 85.00 | 197 | 133 | 0.372 |
| 7:57:46 | 27-NO | 235.76 | 90.00 | 206 | 142 | 0.358 |
| 8: 2:46 | 27-NO | 240.76 | 95.00 | 216 | 152 | 0.345 |
| 8: 7:46 | 27-NO | 245.76 | 100.00 | 226 | 162 | 0.333 |
| 8:12:46 | 27-NO | 250.76 | 105.00 | 236 | 172 | 0.321 |
| 8:17:46 | 27-NO | 255.76 | 110.00 | 247 | 183 | 0.311 |
| 8:22:46 | 27-NO | 260.76 | 115.00 | 258 | 194 | 0.301 |
| 8:27:46 | 27-NO | 265.76 | 120.00 | 269 | 205 | 0.292 |
| 8:32:46 | 27-NO | 270.76 | 125.00 | 282 | 218 | 0.283 |
| 8:37:46 | 27-NO | 275.76 | 130.00 | 294 | 230 | 0.275 |
| 8:42:46 | 27-NO | 280.76 | 135.00 | 307 | 243 | 0.268 |
| 8:47:46 | 27-NO | 285.76 | 140.00 | 319 | 255 | 0.261 |
| 8:52:46 | 27-NO | 290.76 | 145.00 | 333 | 269 | 0.254 |
| 8:57:46 | 27-NO | 295.76 | 150.00 | 347 | 283 | 0.247 |
| 9: 2:46 | 27-NO | 300.76 | 155.00 | 362 | 298 | 0.241 |
| 9: 7:46 | 27-NO | 305.76 | 160.00 | 376 | 312 | 0.235 |
| 9:12:46 | 27-NO | 310.76 | 165.00 | 392 | 328 | 0.230 |
| 9:17:46 | 27-NO | 315.76 | 170.00 | 408 | 344 | 0.225 |
| 9:22:46 | 27-NO | 320.76 | 175.00 | 424 | 360 | 0.219 |
| 9:27:46 | 27-NO | 325.76 | 180.00 | 440 | 376 | 0.215 |
| 9:32:46 | 27-NO | 330.76 | 185.00 | 457 | 393 | 0.210 |
| 9:37:46 | 27-NO | 335.76 | 190.00 | 474 | 410 | 0.206 |
| 9:42:46 | 27-NO | 340.76 | 195.00 | 492 | 428 | 0.201 |
| 9:47:46 | 27-NO | 345.76 | 200.00 | 509 | 445 | 0.197 |
| 9:52:46 | 27-NO | 350.76 | 205.00 | 528 | 464 | 0.194 |
| 9:57:46 | 27-NO | 355.76 | 210.00 | 546 | 482 | 0.190 |
| 10: 2:46 | 27-NO | 360.76 | 215.00 | 565 | 501 | 0.186 |
| 10: 7:46 | 27-NO | 365.76 | 220.00 | 584 | 520 | 0.183 |
| 10:12:46 | 27-NO | 370.76 | 225.00 | 604 | 540 | 0.179 |
| 10:17:46 | 27-NO | 375.76 | 230.00 | 623 | 559 | 0.176 |
| 10:22:46 | 27-NO | 380.76 | 235.00 | 644 | 580 | 0.173 |
| 10:27:46 | 27-NO | 385.76 | 240.00 | 664 | 600 | 0.170 |
| 10:29:25 | 27-NO | 387.42 | 241.66 | 671 | 607 | 0.169 |

REPORT NO.
107299

PAGE NO. 1

TEST DATE:
29-NOV-1988

STARTM

A Schlumberger Transient Analysis Report Of A Schlumberger Drillstem Test

Schlumberger
RECEIVED
DEC 05 1988

43-037-31422

Company: SAMEDAN OIL CORP.

Well: LUCKY LYNN 1-5

TEST IDENTIFICATION

Test Type MFE OH DST
Test No. 2
Formation DESERT CREEK
Test Interval (ft) ... 6496 - 6515
Reference Depth KELLY BUSHING

WELL LOCATION

Field WILD CAT
County SAN JUAN
State UTAH
Sec/Twn/Rng S5T37SR23E
Elevation (ft) 5885

DIVISION OF
OIL, GAS & MINING

HOLE CONDITIONS

Total Depth (MD/TUD)(ft) . 6515 / 6515
Hole Size (in) 7 7/8
Casing/Liner I.D. (in) ...
Perf'd Interv./Nt Pay(ft). -- / 27
Shot Density/Diameter(in).

MUD PROPERTIES

Mud Type GEL CHEM
Mud Weight (lb/gal) 9.4
Mud Resistivity (ohm.m) .. 0.61 @ 60 DEG. F.
Filtrate Resistiv.(ohm.m). 0.60 @ 60 DEG. F.
Filtrate Chlorides (ppm) . 2900

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi). 3255J
Gas Cushion Type NONE
Surface Pressure (psi) ... --
Liquid Cushion Type NONE
Cushion Length (ft) --

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D.(in). 5922 / 3.9
Collar Length ft/I.D.(in). 530 / 2.25
Packer Depths (ft) 6496
Bottomhole Choke Size(in). 15/16
Gauge Depth (ft)/Type 6502 / MECHANICAL

NET PIPE RECOVERY

| Volume | Fluid Type | Properties |
|--------|------------|--------------------------------------|
| 45 FT. | MUD | RW = 0.6 @ 60 DEG. F 3000 PPM CL. |
| | | |
| | | |
| | | |

NET SAMPLE CHAMBER RECOVERY

| Volume | Fluid Type | Properties |
|-----------|------------|----------------------------------|
| 0.08 SCF | GAS | |
| 1800 CC | MUD | 0.6 @ 60 DEG. F. 3000 PPM CL. |
| | | |
| | | |
| Press. 28 | GOR: | GLR: |

VALIDATION RESULTS

Model of Behavior
Fluid Type Used
Reservoir Pressure (psi) .
Transmissivity (md.ft/cp)
Permeability (md)
Skin Factor/Damage Ratio .
Storativity Ratio
Interporosity Flow Coeff..
Distance to Anomaly (ft).
Investigation Radius (ft).
Potentiometric Surf. (ft).

ROCK/FLUID/WELLBORE PROPERTIES

Oil Density (deg. API) ...
Basic Solids (%)
Gas Gravity
Water Cut (%)
Viscosity (cp)
Tot. Compress. (1/psi) ...
Porosity (%) 3 - 10
Reservoir Temperature (F). 136
Form.Vol.Factor (bbl/STB).

PRODUCTION RATE DURING TEST: -

COMMENTS:

SEQUENCE OF EVENTS

Schlumberger

| EVENT NO. | DATE | TIME (HR:MIN) | DESCRIPTION | ELAPSED TIME (MINS) | BHP (PSIA) | BLOW (IN. -H ₂ O) |
|-----------|--------|---------------|----------------------------|---------------------|------------|------------------------------|
| 1 | 29-NOV | 0637 | SET PACKERS | -0.52 | 3255 | |
| 2 | | 0641 | OPENED TOOL-1/4" BUBBLHOSE | 0.00 | 50 | 1" BLOW |
| | | 0646 | | | | 8" BLOW |
| | | 0651 | | | | 8" BLOW |
| 3 | | 0656 | CLOSED FOR INITIAL SHUTIN | 15.21 | 41 | 9" BLOW |
| 4 | | 0726 | END SHUT-IN & START FLOW | 46.45 | 102 | 2" BLOW |
| | | 0733 | | | | 3" BLOW |
| | | 0738 | | | | 3" BLOW |
| | | 0743 | | | | 3.25" BLOW |
| | | 0748 | | | | 3.25" BLOW |
| | | 0753 | | | | 3" BLOW |
| | | 0758 | | | | 2.75" BLOW |
| | | 0833 | | | | 2.75" BLOW |
| | | 0838 | | | | 3" BLOW |
| | | 0848 | | | | 3" BLOW |
| | | 0908 | | | | 3" BLOW |
| | | 0918 | | | | 3" BLOW |
| 5 | | 0928 | CLOSED FOR FINAL SHUT-IN | 166.75 | 49 | 3" BLOW |
| 6 | | 1328 | FINISHED SHUT-IN | 407.02 | 326 | NO BLOW |
| 7 | | 1329 | PULLED PACKERS LOOSE | 413.67 | 3231 | |
| | | | NOTE: NO FILL ON BOTTOM. | | | |
| | | | NO GAS TO SURFACE DURING | | | |
| | | | TEST. DID NOT REVERSE OUT, | | | |

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 107299

COMPANY : SAMEDAN OIL CORP.

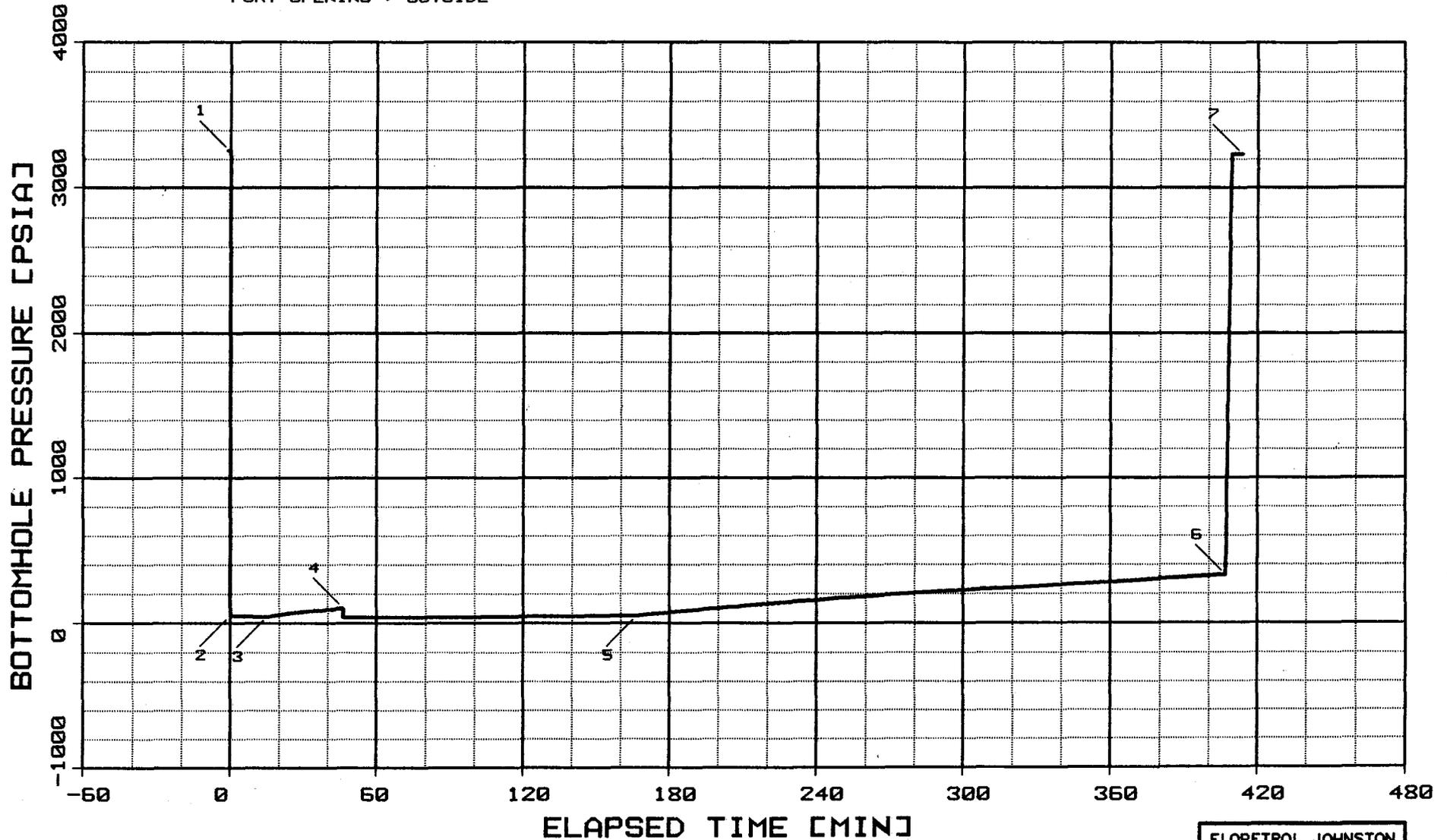
INSTRUMENT NO. 903

WELL : LUCKY LYNN 1-5

DEPTH : 6502 FT

CAPACITY : 6400 PSI

PORT OPENING : OUTSIDE



 * WELL TEST DATA PRINTOUT *

FIELD REPORT # : 107299

COMPANY : SAMEDAN OIL CORP.
 WELL : LUCKY LYNN 1-5

INSTRUMENT # : 903
 CAPACITY [PSI] : 6400.
 DEPTH [FT] : 6502.0
 PORT OPENING : OUTSIDE
 TEMPERATURE [DEG F] : 136.0

LABEL POINT INFORMATION

| # | TIME OF DAY HH:MM:SS | DATE DD-MM | EXPLANATION | ELAPSED TIME, MIN | BOT HOLE PRESSURE PSIA |
|---|-------------------------|---------------|-----------------------------|----------------------|------------------------------|
| 1 | 6:40:29 | 29 | NO HYDROSTATIC MUD | -0.52 | 3255 |
| 2 | 6:41: 0 | 29 | NO START FLOW | 0.00 | 50 |
| 3 | 6:56:13 | 29 | NO END FLOW & START SHUT-IN | 15.21 | 41 |
| 4 | 7:27:27 | 29 | NO END SHUT-IN & START FLOW | 46.45 | 102 |
| 5 | 9:27:45 | 29 | NO END FLOW & START SHUT-IN | 166.75 | 49 |
| 6 | 13:28: 1 | 29 | NO END SHUT-IN | 407.02 | 326 |
| 7 | 13:34:40 | 29 | NO HYDROSTATIC MUD | 413.67 | 3231 |

SUMMARY OF FLOW PERIODS

| PERIOD | START ELAPSED TIME, MIN | END ELAPSED TIME, MIN | DURATION MIN | START PRESSURE PSIA | END PRESSURE PSIA |
|--------|-------------------------------|-----------------------------|-----------------|---------------------------|-------------------------|
| 1 | 0.00 | 15.21 | 15.21 | 50 | 41 |
| 2 | 46.45 | 166.75 | 120.30 | 102 | 49 |

SUMMARY OF SHUTIN PERIODS

| PERIOD | START ELAPSED TIME, MIN | END ELAPSED TIME, MIN | DURATION MIN | START PRESSURE PSIA | END PRESSURE PSIA | FINAL FLOW PRESSURE PSIA | PRODUCING TIME, MIN |
|--------|-------------------------------|-----------------------------|-----------------|---------------------------|-------------------------|--------------------------------|------------------------|
| 1 | 15.21 | 46.45 | 31.24 | 41 | 102 | 41 | 15.21 |
| 2 | 166.75 | 407.02 | 240.27 | 49 | 326 | 49 | 135.51 |

TEST PHASE : FLOW PERIOD # 1

| TIME OF DAY | DATE | ELAPSED TIME,MIN | DELTA TIME,MIN | BOT HOLE PRESSURE PSIA |
|----------------|-------|---------------------|-------------------|------------------------------|
| 6:41: 0 | 29-NO | 0.00 | 0.00 | 50 |
| 6:46: 0 | 29-NO | 5.00 | 5.00 | 47 |
| 6:51: 0 | 29-NO | 10.00 | 10.00 | 42 |
| 6:56: 0 | 29-NO | 15.00 | 15.00 | 41 |
| 6:56:13 | 29-NO | 15.21 | 15.21 | 41 |

TEST PHASE : SHUTIN PERIOD # 1
 FINAL FLOW PRESSURE [PSIA] = 41
 PRODUCING TIME [MIN] = 15.21

| TIME OF DAY | DATE | ELAPSED TIME,MIN | DELTA TIME,MIN | BOT HOLE PRESSURE PSIA | DELTA P PSI | LOG HORNER TIME |
|----------------|-------|---------------------|-------------------|------------------------------|----------------|-----------------------|
| 6:56:13 | 29-NO | 15.21 | 0.00 | 41 | 0 | |
| 6:57:13 | 29-NO | 16.21 | 1.00 | 44 | 3 | 1.210 |
| 6:58:13 | 29-NO | 17.21 | 2.00 | 47 | 6 | 0.935 |
| 6:59:13 | 29-NO | 18.21 | 3.00 | 49 | 8 | 0.783 |
| 7: 0:13 | 29-NO | 19.21 | 4.00 | 52 | 11 | 0.681 |
| 7: 1:13 | 29-NO | 20.21 | 5.00 | 54 | 13 | 0.607 |
| 7: 2:13 | 29-NO | 21.21 | 6.00 | 57 | 15 | 0.548 |
| 7: 3:13 | 29-NO | 22.21 | 7.00 | 59 | 18 | 0.501 |
| 7: 4:13 | 29-NO | 23.21 | 8.00 | 62 | 21 | 0.463 |
| 7: 5:13 | 29-NO | 24.21 | 9.00 | 65 | 24 | 0.430 |
| 7: 6:13 | 29-NO | 25.21 | 10.00 | 68 | 27 | 0.402 |
| 7: 8:13 | 29-NO | 27.21 | 12.00 | 70 | 29 | 0.356 |
| 7:10:13 | 29-NO | 29.21 | 14.00 | 74 | 33 | 0.319 |
| 7:12:13 | 29-NO | 31.21 | 16.00 | 78 | 37 | 0.290 |
| 7:14:13 | 29-NO | 33.21 | 18.00 | 81 | 40 | 0.266 |
| 7:16:13 | 29-NO | 35.21 | 20.00 | 84 | 42 | 0.246 |
| 7:18:13 | 29-NO | 37.21 | 22.00 | 85 | 44 | 0.228 |
| 7:20:13 | 29-NO | 39.21 | 24.00 | 89 | 48 | 0.213 |
| 7:22:13 | 29-NO | 41.21 | 26.00 | 91 | 50 | 0.200 |
| 7:24:13 | 29-NO | 43.21 | 28.00 | 95 | 54 | 0.188 |
| 7:26:13 | 29-NO | 45.21 | 30.00 | 100 | 59 | 0.178 |
| 7:27:27 | 29-NO | 46.45 | 31.24 | 102 | 61 | 0.172 |

TEST PHASE : FLOW PERIOD # 2

| TIME OF DAY | DATE | ELAPSED TIME, MIN | DELTA TIME, MIN | BOT HOLE PRESSURE PSIA |
|-------------|-------|-------------------|-----------------|------------------------|
| HH:MM:SS | DD-MM | ***** | ***** | ***** |
| 7:27:27 | 29-NO | 46.45 | 0.00 | 102 |
| 7:32:27 | 29-NO | 51.45 | 5.00 | 38 |
| 7:37:27 | 29-NO | 56.45 | 10.00 | 38 |
| 7:42:27 | 29-NO | 61.45 | 15.00 | 39 |
| 7:47:27 | 29-NO | 66.45 | 20.00 | 39 |
| 7:52:27 | 29-NO | 71.45 | 25.00 | 39 |
| 7:57:27 | 29-NO | 76.45 | 30.00 | 37 |
| 8: 2:27 | 29-NO | 81.45 | 35.00 | 37 |
| 8: 7:27 | 29-NO | 86.45 | 40.00 | 37 |
| 8:12:27 | 29-NO | 91.45 | 45.00 | 39 |
| 8:17:27 | 29-NO | 96.45 | 50.00 | 39 |
| 8:22:27 | 29-NO | 101.45 | 55.00 | 39 |
| 8:27:27 | 29-NO | 106.45 | 60.00 | 41 |
| 8:32:27 | 29-NO | 111.45 | 65.00 | 41 |
| 8:37:27 | 29-NO | 116.45 | 70.00 | 42 |
| 8:42:27 | 29-NO | 121.45 | 75.00 | 43 |
| 8:47:27 | 29-NO | 126.45 | 80.00 | 44 |
| 8:52:27 | 29-NO | 131.45 | 85.00 | 45 |
| 8:57:27 | 29-NO | 136.45 | 90.00 | 45 |
| 9: 2:27 | 29-NO | 141.45 | 95.00 | 45 |
| 9: 7:27 | 29-NO | 146.45 | 100.00 | 47 |
| 9:12:27 | 29-NO | 151.45 | 105.00 | 47 |
| 9:17:27 | 29-NO | 156.45 | 110.00 | 47 |
| 9:22:27 | 29-NO | 161.45 | 115.00 | 47 |
| 9:27:27 | 29-NO | 166.45 | 120.00 | 49 |
| 9:27:45 | 29-NO | 166.75 | 120.30 | 49 |

TEST PHASE : SHUTIN PERIOD # 2

FINAL FLOW PRESSURE [PSIA] = 49

PRODUCING TIME [MIN] = 135.51

| TIME OF DAY | DATE | ELAPSED TIME, MIN | DELTA TIME, MIN | BOT HOLE PRESSURE PSIA | DELTA P PSI | LOG HORNER TIME |
|-------------|-------|-------------------|-----------------|------------------------|-------------|-----------------|
| HH:MM:SS | DD-MM | ***** | ***** | ***** | ***** | ***** |
| 9:27:45 | 29-NO | 166.75 | 0.00 | 49 | 0 | |
| 9:28:45 | 29-NO | 167.75 | 1.00 | 51 | 2 | 2.135 |
| 9:29:45 | 29-NO | 168.75 | 2.00 | 52 | 3 | 1.837 |
| 9:30:45 | 29-NO | 169.75 | 3.00 | 54 | 5 | 1.664 |
| 9:31:45 | 29-NO | 170.75 | 4.00 | 56 | 7 | 1.543 |
| 9:32:45 | 29-NO | 171.75 | 5.00 | 57 | 8 | 1.449 |
| 9:33:45 | 29-NO | 172.75 | 6.00 | 59 | 10 | 1.373 |
| 9:34:45 | 29-NO | 173.75 | 7.00 | 61 | 11 | 1.309 |
| 9:35:45 | 29-NO | 174.75 | 8.00 | 62 | 13 | 1.254 |
| 9:36:45 | 29-NO | 175.75 | 9.00 | 64 | 15 | 1.206 |
| 9:37:45 | 29-NO | 176.75 | 10.00 | 66 | 17 | 1.163 |
| 9:39:45 | 29-NO | 178.75 | 12.00 | 69 | 20 | 1.090 |

TEST PHASE : SHUTIN PERIOD # 2
 FINAL FLOW PRESSURE [PSIA] = 49
 PRODUCING TIME [MIN] = 135.51

| TIME OF DAY | DATE | ELAPSED TIME,MIN | DELTA TIME,MIN | BOT HOLE PRESSURE PSIA | DELTA P PSI | LOG HORNERS TIME |
|----------------|-------|---------------------|-------------------|------------------------------|----------------|------------------------|
| ***** | ***** | ***** | ***** | ***** | ***** | ***** |
| 9:41:45 | 29-NO | 180.75 | 14.00 | 72 | 23 | 1.029 |
| 9:43:45 | 29-NO | 182.75 | 16.00 | 76 | 27 | 0.976 |
| 9:45:45 | 29-NO | 184.75 | 18.00 | 79 | 30 | 0.931 |
| 9:47:45 | 29-NO | 186.75 | 20.00 | 81 | 32 | 0.891 |
| 9:49:45 | 29-NO | 188.75 | 22.00 | 84 | 35 | 0.855 |
| 9:51:45 | 29-NO | 190.75 | 24.00 | 88 | 39 | 0.823 |
| 9:53:45 | 29-NO | 192.75 | 26.00 | 90 | 41 | 0.793 |
| 9:55:45 | 29-NO | 194.75 | 28.00 | 94 | 45 | 0.766 |
| 9:57:45 | 29-NO | 196.75 | 30.00 | 96 | 47 | 0.742 |
| 10: 2:45 | 29-NO | 201.75 | 35.00 | 103 | 53 | 0.688 |
| 10: 7:45 | 29-NO | 206.75 | 40.00 | 109 | 60 | 0.642 |
| 10:12:45 | 29-NO | 211.75 | 45.00 | 118 | 69 | 0.603 |
| 10:17:45 | 29-NO | 216.75 | 50.00 | 124 | 75 | 0.569 |
| 10:22:45 | 29-NO | 221.75 | 55.00 | 131 | 82 | 0.540 |
| 10:27:45 | 29-NO | 226.75 | 60.00 | 138 | 89 | 0.513 |
| 10:32:45 | 29-NO | 231.75 | 65.00 | 145 | 96 | 0.489 |
| 10:37:45 | 29-NO | 236.75 | 70.00 | 151 | 102 | 0.468 |
| 10:42:45 | 29-NO | 241.75 | 75.00 | 157 | 108 | 0.448 |
| 10:47:45 | 29-NO | 246.75 | 80.00 | 165 | 116 | 0.430 |
| 10:52:45 | 29-NO | 251.75 | 85.00 | 172 | 123 | 0.414 |
| 10:57:45 | 29-NO | 256.75 | 90.00 | 177 | 128 | 0.399 |
| 11: 2:45 | 29-NO | 261.75 | 95.00 | 182 | 133 | 0.385 |
| 11: 7:45 | 29-NO | 266.75 | 100.00 | 189 | 140 | 0.372 |
| 11:12:45 | 29-NO | 271.75 | 105.00 | 195 | 146 | 0.360 |
| 11:17:45 | 29-NO | 276.75 | 110.00 | 199 | 150 | 0.349 |
| 11:22:45 | 29-NO | 281.75 | 115.00 | 204 | 155 | 0.338 |
| 11:27:45 | 29-NO | 286.75 | 120.00 | 208 | 159 | 0.328 |
| 11:32:45 | 29-NO | 291.75 | 125.00 | 214 | 165 | 0.319 |
| 11:37:45 | 29-NO | 296.75 | 130.00 | 218 | 169 | 0.310 |
| 11:42:45 | 29-NO | 301.75 | 135.00 | 223 | 174 | 0.302 |
| 11:47:45 | 29-NO | 306.75 | 140.00 | 228 | 179 | 0.294 |
| 11:52:45 | 29-NO | 311.75 | 145.00 | 232 | 183 | 0.287 |
| 11:57:45 | 29-NO | 316.75 | 150.00 | 237 | 188 | 0.280 |
| 12: 2:45 | 29-NO | 321.75 | 155.00 | 241 | 192 | 0.273 |
| 12: 7:45 | 29-NO | 326.75 | 160.00 | 246 | 197 | 0.266 |
| 12:12:45 | 29-NO | 331.75 | 165.00 | 250 | 201 | 0.260 |
| 12:17:45 | 29-NO | 336.75 | 170.00 | 255 | 206 | 0.255 |
| 12:22:45 | 29-NO | 341.75 | 175.00 | 260 | 211 | 0.249 |
| 12:27:45 | 29-NO | 346.75 | 180.00 | 265 | 215 | 0.244 |
| 12:32:45 | 29-NO | 351.75 | 185.00 | 268 | 219 | 0.239 |
| 12:37:45 | 29-NO | 356.75 | 190.00 | 273 | 224 | 0.234 |
| 12:42:45 | 29-NO | 361.75 | 195.00 | 279 | 230 | 0.229 |
| 12:47:45 | 29-NO | 366.75 | 200.00 | 284 | 235 | 0.225 |
| 12:52:45 | 29-NO | 371.75 | 205.00 | 290 | 241 | 0.220 |
| 12:57:45 | 29-NO | 376.75 | 210.00 | 295 | 246 | 0.216 |
| 13: 2:45 | 29-NO | 381.75 | 215.00 | 301 | 252 | 0.212 |
| 13: 7:45 | 29-NO | 386.75 | 220.00 | 306 | 257 | 0.208 |
| 13:12:45 | 29-NO | 391.75 | 225.00 | 311 | 262 | 0.205 |

TEST PHASE : SHUTIN PERIOD # 2
 FINAL FLOW PRESSURE [PSIA] = 49
 PRODUCING TIME [MIN] = 135.51

| TIME OF DAY | DATE | ELAPSED TIME, MIN | DELTA TIME, MIN | BOT HOLE PRESSURE PSIA | DELTA P PSI | LOG HORNER TIME |
|----------------|-------|----------------------|--------------------|------------------------------|----------------|-----------------------|
| 13:17:45 | 29-NO | 396.75 | 230.00 | 316 | 267 | 0.201 |
| 13:22:45 | 29-NO | 401.75 | 235.00 | 321 | 272 | 0.198 |
| 13:27:45 | 29-NO | 406.75 | 240.00 | 325 | 276 | 0.194 |
| 13:28: 1 | 29-NO | 407.02 | 240.27 | 326 | 277 | 0.194 |

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

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

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 PILE BACK DIFF. RESVR. Other P & A

2. NAME OF OPERATOR **SANEDAN OIL CORPORATION**

3. ADDRESS OF OPERATOR **1618 GLENARM PLACE, SUITE 350 DENVER, COLORADO 80202**

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

At surface **2150 FNL 1600 FEL**

At top prod. interval reported below

Same

At total depth

Same

14. PERMIT NO. **43-037-31422** 5/20/88

DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.

U-58977

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Lucky Lynn

9. WELL NO.

1-5

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

5-37S-23E- SLBM

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 19. ELEV. CASINGHEAD

11/15/88

11/30/88

58 73 GR

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

TD 6676'

0-6676

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORED

(Gearhart) GR/CAL/FDC/CNL, GR/CAL/DLL/MLL/, GR/CAL/BHC

NO

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

| CASING SIZE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|--------------|-----------------|----------------|-----------|--------------------------------|---------------|
| 8 5/8 | 24 | 0-2530 | 11 | 680 SK, 33 Bbls returns | |

29. LINER RECORD 30. TUBING RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|------|----------------|-----------------|
| | | | | | | | |

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|----------------------------------|
| | |

33.* PRODUCTION

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

DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO

FLOW. TUBING PRESS. CASINO PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)

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

35. LIST OF ATTACHMENTS

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

SIGNED Scott Steinko TITLE Petroleum Engineer DATE 11/5/88

*(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);

GEOLOGIC MARKERS

38.

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | TOP | | |
|--------------|--------------|--------|---|------|-------------|------------------|
| | | | | NAME | MEAS. DEPTH | TRUE VERT. DEPTH |
| Upper Ismay | 6301 6316 | 6411 | DST #1 IF 15 min 62-50 psi ISI 30 min 100 psi FF 90 min 50-50 psi FSI 240 min 679 psi Recovered 40' mud | | | |
| Hovenweep | 6415 | | | | | |
| Lower Ismay | 6454 | | | | | |
| Gothic Shale | 6503 | | | | | |
| Desert Creek | 6536 6496 | 6615 | DST #2 IF 15 min 37-25 psi ISI 30 min 100 psi FF 120 min 25-37 psi FSI 240 min 327 psi Recovered 41' mud | | | |
| Chimney Rock | 6603 | | | | | |
| Akah | 6628 | | | | | |
| TD | 6664 | | | | | |

Loggers Depth

| OIL AND GAS | |
|-------------|-----------|
| DRN | RJF |
| JRB | GLH |
| DTS | SLS |
| 1-TAS | |
| 2- | MICROFILM |
| 3- | FILE |

File not returned

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.
U-58977
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
DEC 08 1988

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Samedan Oil Corporation

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: 2150' FNL; 1600' FEL (SWNE) Bottom: Same

14. PERMIT NO. 43-037-31422
15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5,873' GR

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Lucky Lynn

9. WELL NO.
#1-5

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
5-37S-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 checked="" type="checkbox"/> |
| REPAIR WELL <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | (Other) <input type="checkbox"/> | |

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

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

Drilled well to 6676' TD. Received verbal approval & plugging program from Dale Manchester. Moab BLM at 5 P.M. 11/30/88. P & A well as follows with Class "B" cement on 12/1/88:

| Plug # | Interval | #SX |
|--------|-----------|-----|
| 1 | 6350-6050 | 120 |
| 2 | 2630-2430 | 65 |
| 3 | 50-surf | 15 |

Rig released at 12 P.M. 12/1/88.

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

SIGNED Scott Steinke

TITLE Petroleum Engineer

DATE 12/5/88

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

RECEIVED

DEC 14 1988

DIVISION OF
OIL, GAS & MINING

SAMEDAN OIL CORPORATION

LUCKY LYNN 1-5

SEC 5 T37S R23E

SAN JUAN COUNTY, UTAH

WELL SUMMARY

OPERATOR: SAMEDAN OIL COMPANY
WELL NAME: LUCKY LYNN 1-5
LOCATION: SEC 5 NESE T37S R23E
FIELD: WILDCAT
COUNTY: SAN JUAN
STATE: UTAH
ELEVATION: 5,870' GL 5,882' KB
SPUD DATE: NOVEMBER 15, 1988
RELEASE DATE: NOVEMBER 30, 1988
GEOLOGIST: JIM DICKSON
MUD LOGGING: DICKSON GEOLOGICAL SERVICES
ENGINEER: SCOTT STEINKE, SAMEDAN OIL COMPANY
CONTRACTOR: EXETER RIG 68
HOLE SIZE: 11" 0' TO 2,530', 7 7/8" TO 6,676'
MUD COMPANY: BAROID
WIRE LINE LOGGING: GEARHART
TOTAL DEPTH: 6,676' DRILLER, 6,672' LOGGER
OBJECTIVE: ISMAY AND DESERT CREEK FORMATIONS
STATUS: PLUG AND ABANDON

BIT RECORD

| BIT # | SIZE | MAKE | TYPE | DEPTH IN | DEPTH OUT | FEET | HOURS |
|-------|--------|------|-------|----------|-----------|--------|--------|
| NB1 | 11" | SEC | S84F | 0' | 2,530' | 2,530' | 54 3/4 |
| NB2 | 7 7/8" | SEC | SE216 | 2,530' | 4,813' | 2,283' | 64 |
| RR3 | 7 7/8" | SEC | S85F | 4,813' | 5,379' | 566' | 20 |
| NB4 | 7 7/8" | SEC | S85F | 5,379' | 6,400' | 1,021' | 57 1/4 |
| RR5 | 7 7/8" | HTC | J-22 | 6,411' | 6,676' | 265' | 21 |

DIRECTIONAL SURVEYS

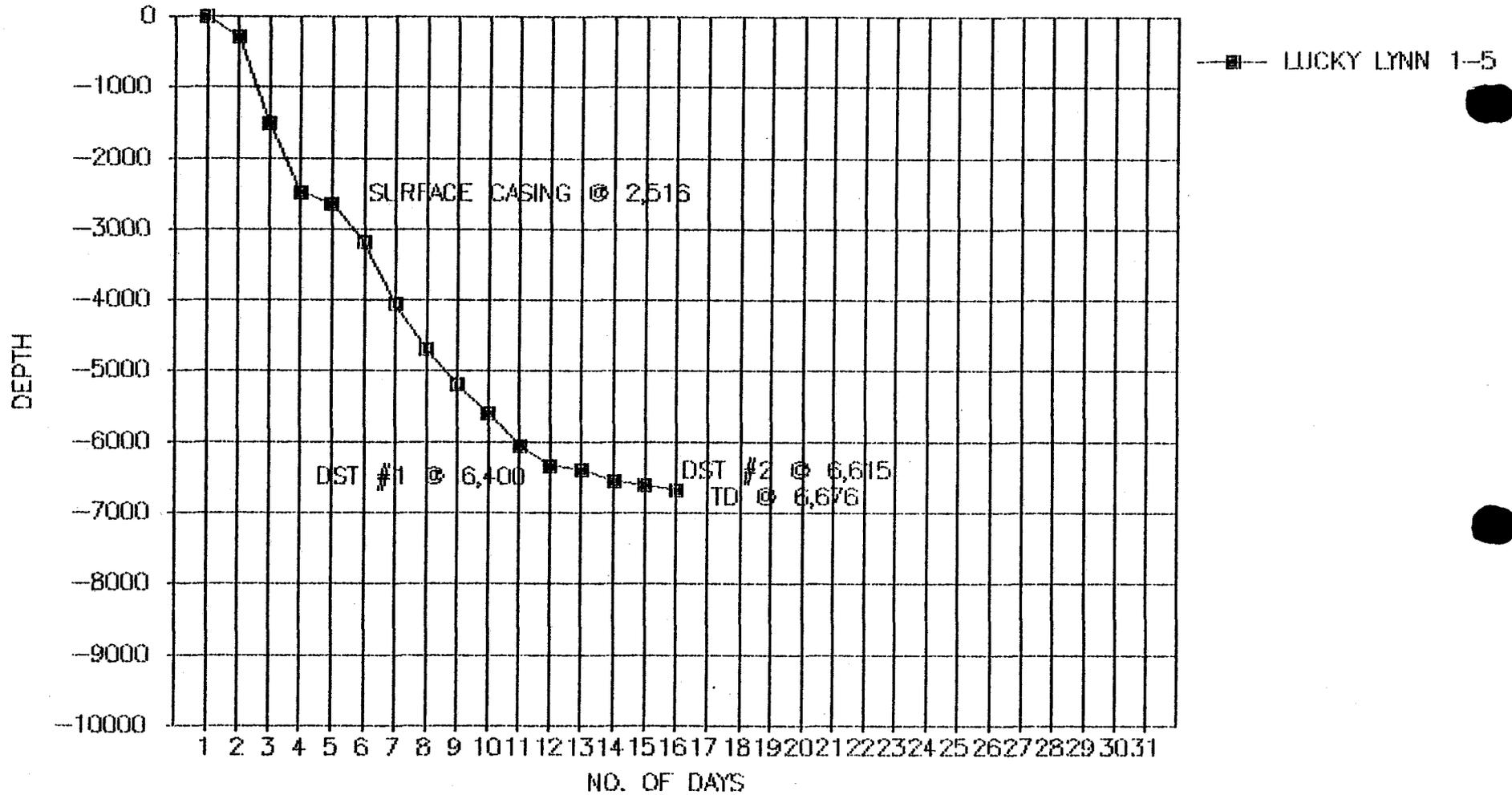
| DEPTH | DEVIATION | DIRECTION | DEPTH | DEVIATION | DIRECTION |
|--------|-----------|-----------|--------|-----------|-----------|
| 496' | 1 1/2 | | 794' | 1 1/4 | |
| 1,204' | 1 1/2 | | 1,773' | 3/4 | |
| 2,234' | 3/4 | | 2,995' | 1 1/4 | |
| 3,534' | 1 | | 4,055' | 1 | |
| 4,621' | 1 3/4 | | 5,068' | 1 1/2 | |
| 5,337' | 1 3/4 | | 5,847' | 2 | |
| 5,847' | 2 | | 6,355' | 1 3/4 | |

DAILY FOOTAGE

| DATE | 7:00 AM DEPTH | 24HOUR FOOTAGE |
|----------|---------------|----------------|
| 11/15/88 | 0' | 0' |
| 11/16/88 | 287' | 287' |
| 11/17/88 | 1,515' | 1,228' |
| 11/18/88 | 2,494' | 979' |
| 11/19/88 | 2,645' | 151' |
| 11/20/88 | 3,180' | 535' |
| 11/21/88 | 4,045' | 865' |
| 11/22/88 | 4,689' | 644' |
| 11/23/88 | 5,192' | 503' |
| 11/24/88 | 5,593' | 401' |
| 11/25/88 | 6,057' | 464' |
| 11/26/88 | 6,340' | 283' |
| 11/27/88 | 6,400' | 60' |
| 11/28/88 | 6,555' | 155' |
| 11/29/88 | 6,615' | 60' |
| 11/30/88 | 6,676' | 61' |

SAMEDAN OIL COMPANY

LUCKY LYNN 1-5
DRILLING PLOT



**DICKSON GEOLOGICAL SERVICES
HYDROCARBON SHOW REPORT**

SHOW #: 1

OPERATOR: SAMEDAN OIL COMPANY

WELL NAME: LUCKY LYNN 1-5

LOCATION: SEC 5 SENE T37S R23E
SAN JUAN COUNTY, UTAH

SHOW INTERVAL: 6,339' TO 6,349'

DRILL RATE: ABOVE 5.5 MIN/FT THROUGH 2 MIN/FT BELOW 3 MIN/FT

DRILLING FLUID: Wt 9.3+ Vis 38 WL-- pH 9.5 CK 2/32 CL 2,300

| | TOTAL UNITS | ppmC1 | C2 | C3 | C4 | C5 | C6 |
|--------|----------------|--------|-------|-------|-------|-----|----|
| BEFORE | | 2,500 | 600 | 200 | 100 | 50 | |
| DURING | 25 | 20,000 | 4,000 | 2,000 | 1,200 | 800 | |
| AFTER | | 6,000 | 1,200 | 800 | 420 | 200 | |

POROSITY: POOR TO MODERATE INTERCRYSTALLINE

FLUORESCENCE: 70% YELLOW TO BRIGHT YELLOW, OCC SPOTTY

STAIN: TRACE DARK BROWN

CUT: NO TO POOR CUT, FLASH DRY CUT WITH YELLOW RESIDUE RING

SHOW LITHOLOGY: 80% DOL- BUFF, CRM, MIC XLN(VF), SUC IP, FRM-
HRD

REMARKS: NEGATIVE READINGS ON HOT-WIRE TOTAL GAS INSTRU-
-MENT, PREVIOUS TO THE SHOW, INDICATE CO2 IN MUD.
TOTAL GAS READINGS DURING SHOW ERRONEOUS DUE TO
THE CO2. SHOW FORMATION-ISMAY

DICKSON GEOLOGICAL SERVICES
HYDROCARBON SHOW REPORT

SHOW #: 2

OPERATOR: SAMEDAN OIL COMPANY

WELL NAME: LUCKY LYNN 1-5

LOCATION: SEC 5 SENE T37S R23E
SAN JUAN COUNTY, UTAH

SHOW INTERVAL: 6,354' TO 6,361'

DRILL RATE: ABOVE 3 MIN/FT THROUGH 1.5 MIN/FT BELOW 4 MIN/FT

DRILLING FLUID: Wt 9.3+ Vis 38 WL-- Ph 9.5 CK 2/32 CL 2,300

| | TOTAL UNITS | ppmC1 | C2 | C3 | C4 | C5 | C6 |
|--------------|----------------|--------|-------|-------|-------|-----|----|
| BEFORE | | 6,000 | 600 | 420 | 180 | 50 | |
| DURING 1,000 | 81,000 | 18,000 | 9,000 | 4,000 | 3,000 | | |
| AFTER | | 5,800 | 1,100 | 800 | 420 | 200 | |

POROSITY: POOR TO MODERATE INTERCRYSTALLINE

FLUORESCENCE: SPOTTY YELLOW

STAIN: NO STAIN

CUT: POOR TO GOOD CUT, STREAMING DRY CUT

SHOW LITHOLOGY: DOL-BN, BUFF, MICXLN(VF-OCCF), FRM-HRD, TR
SUC

REMARKS: 1,000 UNITS TOTAL GAS NOT QUANTITATIVE DUE TO CO2
CAUSING NEGATIVE READINGS. SHOW FORMATION-ISMAY

DICKSON GEOLOGICAL SERVICES
HYDROCARBON SHOW REPORT

SHOW #: 3

OPERATOR: SAMEDAN OIL COMPANY

WELL NAME: LUCKY LYNN 1-5

LOCATION: SEC 5 SENE T37S R23E
SAN JUAN COUNTY, UTAH

SHOW INTERVAL: 6,530' TO 6,550'

DRILL RATE: ABOVE 4 MIN/FT THROUGH 2 MIN/FT BELOW 5 MIN/FT

DRILLING FLUID: Wt 9.4+ Vis 36 WL 14.6 Ph 10.5 CK 2/32 CL 2,800

| | TOTAL UNITS | ppmC1 | C2 | C3 | C4 | C5 | C6 |
|--------|----------------|--------|-------|-------|-------|-----|----|
| BEFORE | | 21,000 | 4,000 | 2,300 | 800 | 400 | |
| DURING | | 36,000 | 7,500 | 3,800 | 1,660 | 800 | |
| AFTER | | 23,000 | 4,500 | 2,300 | 1,200 | 400 | |

POROSITY: POOR TO TRACE FAIR INTERCRYSTALLINE

FLUORESCENCE: TRACE; YELLOW TO SPOTTY YELLOW

STAIN:

CUT: PREDOMINATLY NO TO POOR CUT, TRACE STREAMING CUT

SHOW LITHOLOGY: 10% DOLOMITE-LT BROWN, BROWN, BUFF, MICRO-
CRYSTALLINE, TRACE SUCROSIC, FIRM TO
SOFT

REMARKS: TOTAL GAS MEASUREMENTS NEGATIVELY EFFECTED BY
GAS IN MUD, POSSIBLE CO2. SHOW FORMATION:
DESERT CREEK

DICKSON GEOLOGICAL SERVICES
HYDROCARBON SHOW REPORT

SHOW #: 4

OPERATOR: SAMEDAN OIL COMPANY

WELL NAME: LUCKY LYNN 1-5

LOCATION: SEC 5 SENE T37S R23E
SAN JUAN COUNTY, UTAH

SHOW INTERVAL: 6,570' TO 6,576'

DRILL RATE: ABOVE 6 MIN/FT THROUGH 4 MIN/FT BELOW 5.5 MIN/FT

DRILLING FLUID: Wt 9.4+ Vis 36 WL 14.6 pH 10.5 CK 2/32 CL 2,800

| | TOTAL UNITS | ppmC1 | C2 | C3 | C4 | C5 | C6 |
|--------|----------------|--------|-------|-------|-----|-----|----|
| BEFORE | | 3,800 | 800 | 500 | 200 | 75 | |
| DURING | | 14,000 | 3,200 | 1,300 | 800 | 400 | |
| AFTER | | 4,500 | 1,000 | 700 | 300 | 200 | |

POROSITY: POOR TO TRACE FAIR INTERCRYSTALLINE

FLUORESCENCE: TRACE YELLOW

STAIN:

CUT: NO TO POOR CUT, HEAVY YELLOW RESIDUE RING

SHOW LITHOLOGY: 20% DOLOMITE-BUFF, LIGHT BROWN, MICRO-
CRYSTALLINE, SLIGHTLY CALCAREOUS IN
PART, FIRM

REMARKS: TOTAL GAS MEASUREMENTS NEGATIVELY EFFECTED BY
GAS IN MUD, POSSIBLY CO2. SHOW FORMATION:
DESERT CREEK.

DICKSON GEOLOGICAL SERVICES
HYDROCARBON SHOW REPORT

SHOW #: 5

OPERATOR: SAMEDAN OIL COMPANY

WELL NAME: LUCKY LYNN 1-5

LOCATION: SEC 5 SENE T37S R23E
SAN JUAN COUNTY, UTAH

SHOW INTERVAL: 6,580' TO 6,583'

DRILL RATE: ABOVE 5 MIN/FT THROUGH 3 MIN/FT BELOW 5 MIN/FT

DRILLING FLUID: Wt 9.4+ Vis 36 WL 14.6 pH 10.5 CK 2/32 CL 2,800

| | TOTAL UNITS | ppmC1 | C2 | C3 | C4 | C5 | C6 |
|--------|----------------|--------|-------|-------|-------|-----|----|
| BEFORE | | 4,500 | 1,000 | 700 | 300 | 200 | |
| DURING | | 31,000 | 4,500 | 3,500 | 1,500 | 800 | |
| AFTER | | 5,000 | 900 | 400 | 200 | 100 | |

POROSITY: POOR TO TRACE FAIR INTERCRYSTALLINE

FLUORESCENCE: TRACE YELLOW

STAIN:

CUT: NO TO POOR CUT, TRACE WEAK STREAMING CUT

SHOW LITHOLOGY: 30% DOLOMITE-BUFF, LIGHT BROWN, MICRO
CRYSTALLINE, CALCAREOUS IN PART, FIRM-
SOFT

REMARKS: TOTAL GAS MEASUREMENTS NEGATIVELY EFFECTED BY
GAS IN MUD, POSSIBLY CO2. SHOW FORMATION:
DESERT CREEK

SAMEDAN OIL COMPANY
LUCKY LYNN 1-5

DST NUMBER 1 INTERVAL TESTED: 6,316' TO 6,411' UPPER ISMAY

TESTER: FLOPETROL TESTING TIMES: 15MIN/30MIN/90MIN/240MIN

| | 6,287' TOP CHART | 6,322' BOTTOM CHART |
|----------------------|---------------------|------------------------|
| INITIAL HYDROSTATIC: | 3,075 PSI | 3,094 PSI |
| INITIAL FLOW: | 67/42 PSI | 62/50 PSI |
| INITIAL SHUT IN: | 80 PSI | 100 PSI |
| FINAL FLOW: | 42/42 PSI | 50/50 PSI |
| FINAL SHUT IN: | 80 PSI | 100 PSI |
| FINAL HYDROSTATIC: | 3,075 PSI | 3,074 PSI |

REMARKS: OPEN TOOL: 3" BLOW, 12" @ 5 MIN. CLOSE TOOL: NO BLOW.
OPEN TOOL: 3" BLOW, 6" @ 5 MIN, 5" @ 15 MIN, 4" @ 35
MIN, 3" @ 50 MIN, 2" @ 60 MIN, 1 1/2" @ 75 MIN, 1" @
90 MIN.

SAMPLER: VOL=2500 CC, .09 CU. FT. GAS, 0 CC OIL, 0 CC WATER,
1840 CC V SL OIL & GAS CUT MUD, 33 PSI.

RESISTIVITY: RECOVERED MUD-.6 @ 56 F,
REC. MUD FLITRATE-.58 @ 56 F, 3,000 PPM CHL
PIT MUD-.85 @ 80 F
PIT MUD FLITRATE-.80 @ 80 F, 2750 PPM CHL

RECOVERY: 40 FEET MUD

SAMEDAN OIL COMPANY
LUCKY LYNN 1-5

DST NUMBER 2 INTERVAL TESTED: 6,496' TO 6,515' DESERT CREEK

TESTER: FLOPETROL TESTING TIMES: 15 MIN/30MIN/120MIN/240MIN

| | 6,466' TOP CHART | 6,502' BOTTOM CHART |
|----------------------|---------------------|------------------------|
| INITIAL HYDROSTATIC: | NO CHART | 3,220 PSI |
| INITIAL FLOW: | | 37/25 PSI |
| INITIAL SHUT IN: | | 100 PSI |
| FINAL FLOW: | | 25/37 PSI |
| FINAL SHUT IN: | | 327 PSI |
| FINAL HYDROSTATIC: | | 3,207 PSI |

REMARKS: OPEN TOOL: 1" BLOW, 8" @ 5 MIN, 9" @ 15 MIN. CLOSE
TOOL: 1" BLOW FOR 30 MIN. OPEN TOOL: 2" BLOW, 3" @
5 MIN, 3 1/4" @ 15 MIN, 3" @ 25 MIN, 2 3/4" @ 30 MIN,
3" @ 70 TO 120 MIN. CLOSE TOOL: 3" BLOW, DEAD IN 10
MIN.

SAMPLER: VOL=2500 CC, .08 CU. FT. GAS, 0 CC OIL, 0 CC WATER,
1800 CC MUD, 28 PSI.

RESISTIVITY: RECOVERED MUD-.6 @ 60 F
REC. MUD FLITRATE-.58 @ 60 F, 3000 PPM CHL
PIT MUD-.61 @ 60 F
PIT MUD FLITRATE-.6 @ 60 F, 2900 PPM CHL

RECOVERY: 45 FEET MUD (.22 BBLs)

SAMEDAN OIL CORPORATION
 LUCKY LYNN 1-5
 WATER SATURATION DATA SHEET

$SW_2 = F * RW / RT$

F=.81/02 SANDS F=1/02 CARBONATES

| DEPTH | RW | RT | POROSITY | SW | COMMENTS |
|-------|------|-------|----------|-----|--------------------|
| 6351 | 0.04 | 42 | 0.08 | 39% | POOR DST PRESSURE |
| 6353 | 0.04 | 20 | 0.14 | 32% | POOR DST PRESSURE |
| 6355 | 0.04 | 11 | 0.11 | 55% | POOR DST PRESSURE |
| 6363 | 0.04 | 800 | 0.025 | 28% | VERY POOR POROSITY |
| 6365 | 0.04 | 1500 | 0.025 | 21% | VERY POOR POROSITY |
| 6383 | 0.04 | 3000 | 0.02 | 18% | VERY POOR POROSITY |
| 6385 | 0.04 | 10000 | 0.02 | 10% | VERY POOR POROSITY |
| 6387 | 0.04 | 8000 | 0.02 | 11% | VERY POOR POROSITY |
| 6412 | 0.04 | 1500 | 0.03 | 17% | VERY POOR POROSITY |
| 6414 | 0.04 | 2500 | 0.025 | 16% | VERY POOR POROSITY |

SAMEDAN OIL COMPANY
 LUCKY LYNN 1-5
 MUD RECORD

| DATE | DEPTH | WT | FUN VIS | PLAS VIS | YP | GEL STRNGTH | pH | WL | CKE | ALK FILTRATE | %Cl | %Ca | %SD | %SOL | % H2O |
|-----------|-------|--------|------------|-------------|----|----------------|------|------|------|-----------------|------|-----|-----|------|-------|
| 16-Nov-88 | 175 | 8.5 | 32 | 6 | 1 | 0/0 | 11 | -- | --- | .28/.58 | 400 | 150 | 0 | 2 | 98 |
| 17-Nov-88 | 1320 | 8.5 | 28 | 3 | 0 | 0/0 | 8.5 | -- | --- | .01/.23 | 400 | 120 | tr | 2 | 98 |
| 18-Nov-88 | 2490 | 8.6 | 26 | 2 | 0 | 0/0 | 8.5 | -- | --- | .01/.28 | 400 | 150 | tr | 2 | 98 |
| 19-Nov-88 | 2530 | 8.3 | 27 | - | - | --- | --- | -- | --- | ----- | --- | --- | -- | - | -- |
| 20-Nov-88 | 3099 | 8.4 | 27 | 0 | 0 | 0/0 | 11 | -- | --- | .31/.65 | 600 | 180 | tr | 2 | 98 |
| 21-Nov-88 | 3980 | 8.3+ | 27 | 1 | 0 | 0/0 | 11 | -- | --- | .36/.81 | 600 | 180 | 0 | 1 | 99 |
| 22-Nov-88 | 4650 | 8.5 | 28 | 2 | 0 | 0/0 | 8 | -- | --- | .0/.20 | 500 | 160 | 0 | 2 | 98 |
| 23-Nov-88 | 5150 | 8.5+ | 28 | 2 | 0 | 0/0 | 7.5 | -- | --- | .0/.15 | 500 | 150 | 0 | 2 | 98 |
| 24-Nov-88 | 5547 | 8.3+ | 27 | 0 | 0 | 0/0 | 8 | -- | --- | .0/.19 | 500 | 180 | 0 | 1 | 99 |
| 25-Nov-88 | 6030 | 8.8 | 29 | 5 | 1 | 0/0 | 9 | 22 | 2/32 | .10/.33 | 2800 | 240 | tr | 3 | 97 |
| 26-Nov-88 | 6315 | 9.3+ | 38 | 10 | 9 | 3/8 | 9.5 | | 2/32 | .12/.26 | 2300 | 200 | 0 | 7 | 93 |
| 27-Nov-88 | 6400 | DST #1 | | | | | | | | | | | | | |
| 28-Nov-88 | 6540 | 9.4+ | 36 | 10 | 5 | 1/4 | 10.5 | 14.6 | 2/32 | .30/.68 | 2800 | 240 | 0 | 8 | 92 |
| 29-Nov-88 | 6615 | DST #2 | | | | | | | | | | | | | |
| 30-Nov-88 | 6676 | 9.6 | 42 | 16 | 5 | 2/6 | 11 | 12.5 | 2/32 | .45/1.08 | 8800 | 160 | 0 | 9 | 91 |

SAMEDAN OIL COMPANY
LUCKY LYNN 1-5

The Samedan Oil Corporation Lucky Lynn 1-5 was drilled to total depth of 6,581 feet into the Pennsylvanian Paradox Formation. The well was plugged and abandoned on December 1, 1988.

HERMOSA FORMATION

The Hermosa Formation is divided into several members at this location. The two members seen by this geologist on this well were the Honaker trail Member and the Paradox Member. The Paradox Member is further divided into several zones: the Ismay, the Desert Creek, the Akah, and the Barker Creek. There are other members in the Hermosa Formation but were not drilled in this well.

HONAKER TRAIL MEMBER

The cyclical marine shelf deposits of the Honaker Trail were seen from the depth this geologist was on location to 6,301 feet. The prominent rock types were interbedded limestones, sandstones, and shales with coal, chert, and dolomite occasionally present. The lithology consisted of: Limestone-dark brown to brown, tan, cream, micro to cryptocrystalline, occasionally dolomitic, firm to hard; Sandstone-white to light gray, very fine to fine grained, subrounded, moderately well sorted, firm to friable, occasionally calcareous; Shale-dark gray to gray, dark brown to brown, black, calcareous, subplaty to blocky, firm to hard.

The background gas varied between 5 to 130 units, and no

significant gas shows or oil shows were seen in this zone. The readings on the Hot Wire Total Gas Detector were negatively affected at a depth of 6,146 feet, this negative effect on the hot wire with no decrease seen on the readings from the Flame Ionization Detector suggests the presence of a non-combustible gas such as Carbon Dioxide. These negative readings were seen from 6,146 feet to 6,681 feet.

PARADOX MEMBER

The Paradox Member contains cyclical deposits associated with marine shelf, penesaline, and hypersaline environments. The hypersaline environment is represented by the last foot drilled in this well, the Akah Salt.

The Ismay and Desert Creek zones in this well show some anhydrite beds which suggests the penesaline facies. The cyclical deposits for this facies consist of black shale, dolomite and limestone or if an algal mound is present: black shale, oolitic limestone, algal limestone and limestone. An algal mound consists of the calcareous alga *Ivanovia* a rock builder that developed good porosity within the limestone framework it built. These algal mounds are the primary target for oil production in this area because of their good porosity and the presence of hydrocarbons within their structures.

The lithologies seen in this well during shows were primarily dolomites. A general description for the rock seen is Dolomite- buff, cream, light brown to brown, microcrystalline with very fine to occasionally fine crystals, sucrosic in part, calcareous in part, slightly argillaceous, and firm to hard. There

was fluorescence and poor oil shows seen in the dolomites through the Ismay and Desert Creek Zones, with the best gas and oil show seen at, 6,354 feet. The gas at this depth went from 6,000 ppm C1 to 81,000 ppm C1 (see show #2), then down to 5,800 ppm C1 with a significant increase of C2 through C5 associated with the increase in methane. The sample for the interval 6,354 to 6,361 feet had spotty yellow fluorescence, poor to moderate intercrystalline porosity, poor to good oil cut and a flash dry cut.

The wire line logs for this interval show porosities of 8 to 14% (BCS) and formation resistivities of 11 to 42 ohmm. Using the basic Archie equation and a R_w of .04 calculates the water saturation to vary between 55 to 32% for this zone. These values indicate possible productive potential in this zone. A Drill Stem Test was run over this interval and the pressures seen across the footage tested were low (100 psi, 240 min. shut-in). Due to the low pressures seen in the DST, this zone was determined to be of marginal productive potential.

The second Drill Stem Test over the Desert Creek Zone had a slightly better final shut-in pressure (327 psi) than the first test. The very poor porosity values from the wire line logs and poor shows while drilling, along with the low pressure values from the DST indicate poor productive potential through this zone.

If I may be of any further assistance in the evaluation of this well, please do not hesitate to contact me.

Jim Dickson

Dickson Geological Services