

FILE NOTATIONS

Entered in MID File ✓
Location Map Planned ✓
Card Indexed ✓

Checked by Chief *PWB*
Approval Letter *9-9-74*
Disapproval Letter

COMPLETION DATA:

Date Well Completed *11-21-74*
.....
..... WW..... TA.....
..... OS..... PA..... ✓

Location Inspected
Bond released
State or Fee Land

LOGS FILED

Driller's Log..... ✓
Electric Logs (No.)
..... I..... Dual I Lat..... GR-N..... Micro.....
..... Sonic CP..... Sonic.....
..... CCLog..... Others.....

PENNZOIL COMPANY

September 4, 1974

United States Geological Survey
P. O. Box 1809
Durango, Colorado 81301

Attention: Mr. Jerry W. Long

Re: La Sal Federal No. 1
San Juan Co., Utah

Gentlemen:

Enclosed herewith, please find enclosed the following regarding the above captioned well:

1. Four copies of Application for Permit to Drill
2. Four copies of Well Location Plat
3. Four copies of 12 pt. Surface Usage Plan with attachments.

If we can be of any further assistance, please do not hesitate to contact this office.

Very truly yours,

PENNZOIL COMPANY

Robert C. Arceneaux

Robert C. Arceneaux
Operations Superintendent

RCA/bg

enclosures
bcc: Utah Division of Oil & Gas Conservation
1588 W. North Temple
Salt Lake City, Utah 84116

C
O
P
Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
 Pennzoil Company

3. ADDRESS OF OPERATOR
 P. O. Drawer 1139, Denver, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 1550' FNL 1840' FWL
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 6 mi. South of La Sal Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 800'

16. NO. OF ACRES IN LEASE 160

17. NO. OF ACRES ASSIGNED TO THIS WELL 320

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

19. PROPOSED DEPTH 10,200'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 7028 Ungraded Ground Level

22. APPROX. DATE WORK WILL START*
 September 15, 1974

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 La Sal Federal

9. WELL NO.
 1

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 35 29S 24E

12. COUNTY OR PARISH
 San Juan

13. STATE
 Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
22	16	75	± 50	200
13-3/4	10-3/4	40.5	± 1500	600
8-3/4	7	23 & 26	10,200	± 1500 (Two stage)

This well is a Mississippian test but will be drilled down through the McCracken.

Watch for Patach Beds

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.

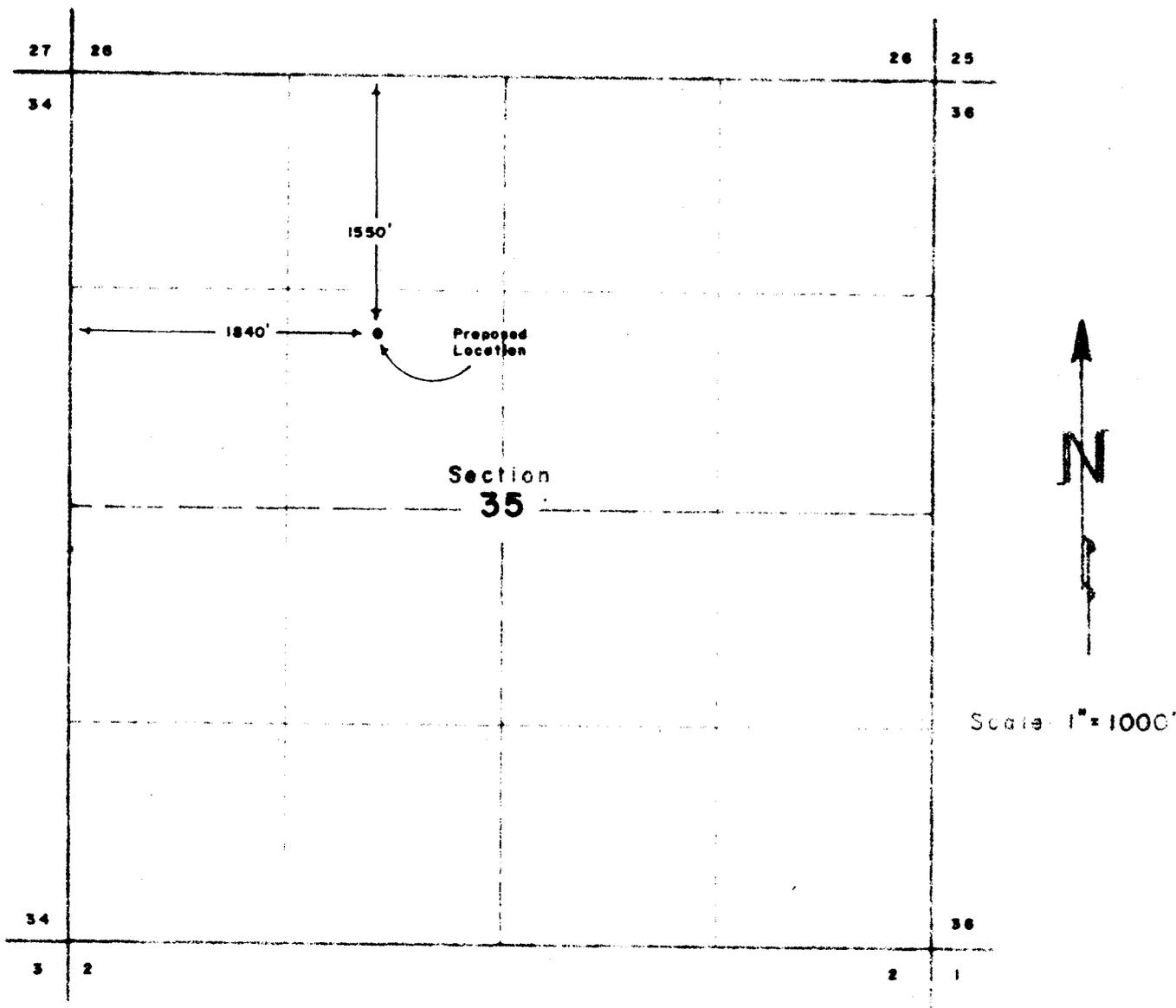
SIGNED Robert C. Arnesen TITLE Operations Superintendent DATE Sept 3, 1974

(This space for Federal or State office use)
 PERMIT NO. 43-037-30206 APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

*See Instructions On Reverse Side



WELL LOCATION PENNZOIL COMPANY LA SAL FEDERAL NO. 1

Located 1550 feet South of the North line and 1840 feet East of the West line of Section 35,
 Township 29 South, Range 24 East, Salt Lake Base Meridian,
 San Juan County, Utah
 Existing ground elevation determined 7028 feet based on U.S.G.S. Datum.

I hereby certify the above plat is a true and correct copy of the original made under my supervision and to the best of my knowledge and belief.

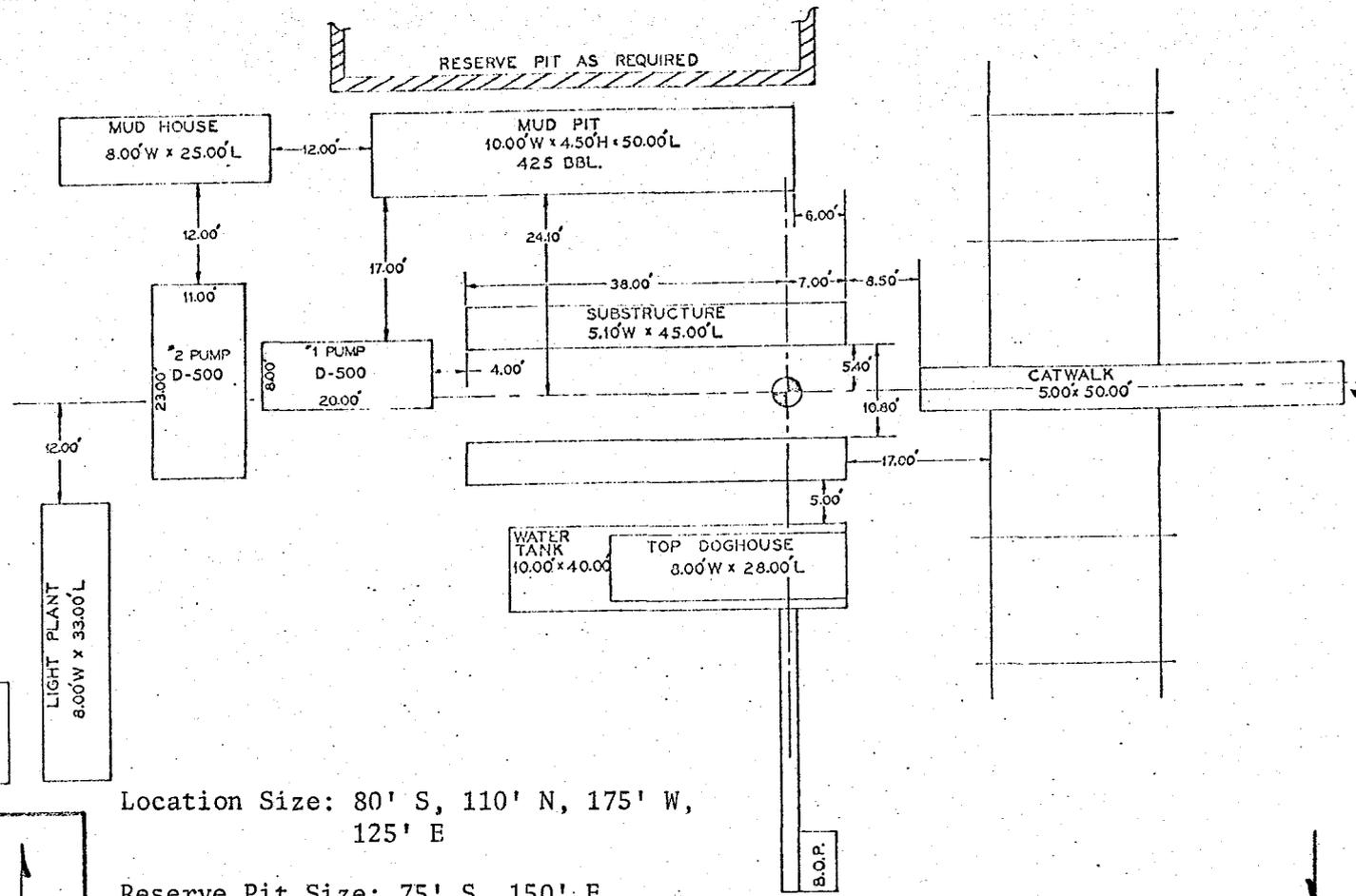
Fredrick H. Head

REGISTERED SURVEYOR
 Utah Reg. # 2689

PENNZOIL COMPANY
 Denver, Colorado

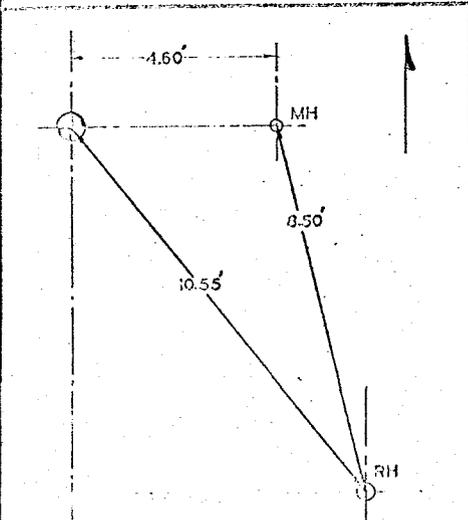
WELL LOCATION PLAT
 Section 35, T. 29 S., R. 24 E.,
 San Juan County, Utah

DATE: Aug. 30, 1974
 NO. 74064

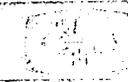


Location Size: 80' S, 110' N, 175' W,
125' E

Reserve Pit Size: 75' S, 150' E



THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN IS A CONFIDENTIAL DISCLOSURE. IT IS SHOWN TO YOUR COMPANY WITH THE UNDERSTANDING IT IS NOT TO BE REVEALED TO OTHERS OR USED FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF LOFLAND BROTHERS COMPANY.

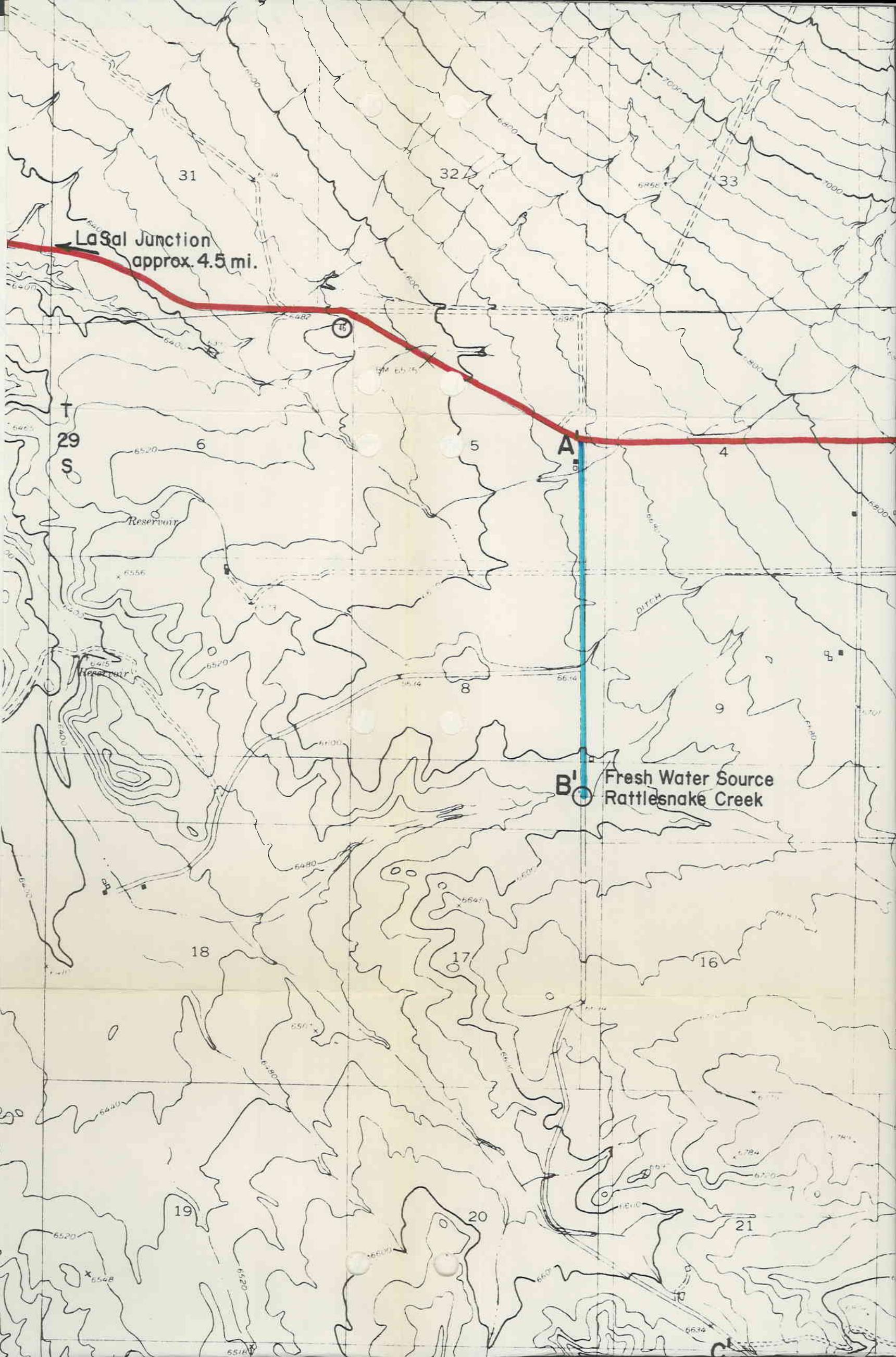
 LOFLAND BROTHERS COMPANY P. O. BOX 107 JULSA, OKLAHOMA 73051		DATE 4-5-74	SCALE N.T.S.
		DRN. BY R.A.F.	RIG 203
TITLE LOCATION PLAN		DIV. 11	DRWG. LP-203

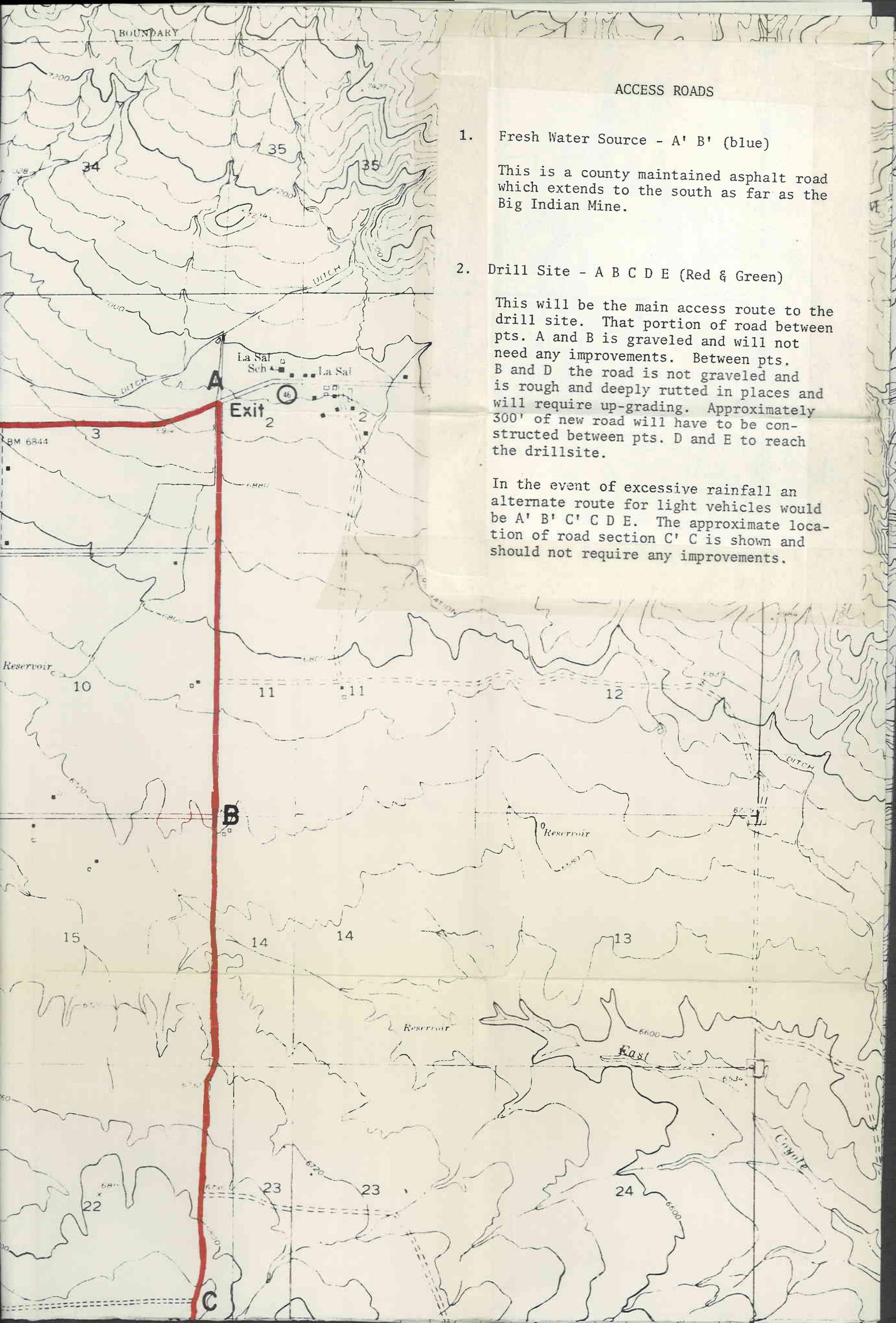
0	DIVISION APPROVAL	3-8-74	
REV.	DESCRIPTION	DATE	BY

DRAWING 1

LaSal Junction
approx. 4.5 mi.

Fresh Water Source
Rattlesnake Creek





ACCESS ROADS

1. Fresh Water Source - A' B' (blue)

This is a county maintained asphalt road which extends to the south as far as the Big Indian Mine.

2. Drill Site - A B C D E (Red & Green)

This will be the main access route to the drill site. That portion of road between pts. A and B is graveled and will not need any improvements. Between pts. B and D the road is not graveled and is rough and deeply rutted in places and will require up-grading. Approximately 300' of new road will have to be constructed between pts. D and E to reach the drillsite.

In the event of excessive rainfall an alternate route for light vehicles would be A' B' C' C D E. The approximate location of road section C' C is shown and should not require any improvements.



PENNZOIL COMPANY

LA SAL FEDERAL NO. 1
1550 ft. FNL, 1840 ft. FWL
Sec. 35, T 29 S R 24 E
San Juan Co., Utah

Surface Usage Plan

1. Existing Roads and Exit

Exit from Utah State Highway 46 on the east line of Sec. 3, T 29 S, R 24 E (see attached map).

2. Access Roads

Access to this location is by existing county roads and existing trails. Some improvements will be necessary. Access route is shown in red on the attached map. Additional information on map inset.

3. Existing Wells

See attached map.

4. Lateral Roads

There are no other well locations within a half-mile radius of the proposed wellsite. All known roads and trails are shown on the attached map.

5. Tank Battery

At this point in time future development plans are indefinite. If commercial production is found the well will probably be tested for several days to determine its capability and to obtain reservoir parameters before additional wells are drilled. In all probability, production and storage facilities will be installed at the wellsite. If it can be determined that the reservoir extends over a large area requiring several wells then a central facility will be installed.

6. Water Supply

Fresh water which will be used during the drilling of the proposed well, will be taken out of Rattlesnake Creek. (See attached map). Temporary water usage rights will be purchased from Mr. Harvey Blankenagle, who owns water rights at this location. Salt water will be purchased from commercial sources located in Moab, Utah.

7. Waste Disposal

All flammable waste material will be burned in a properly constructed burning pit. Nonflammable materials will be placed in the reserve pit and then covered after sufficient drying has occurred. The reserve pit and the burn pit will be fenced in immediately upon completion of drilling operations and will remain fenced in until they are no longer needed and then they will be filled in.

8. Camps

Not required.

9. Airstrips

Not required.

10. Location Layout

See drawing No. 1.

11. Restoration

The reserve and burn pit will be fenced in immediately and back filled as soon as conditions permit, or when they are no longer needed. In the event that the well is a dry hole the location will be leveled and the area will be restored as nearly as possible to its original condition. After completion of all dirt work the area will be seeded into grass of a type and amount that is acceptable to the Bureau of Land Management.

12. Miscellaneous

As can be seen on the attached topographic map, this location is on the top of a high ridge which runs in a NW-SE direction. The top and northeast slope of the ridge were cleared of all timber by dragging operations several years ago. The drillsite is on the edge of the cleared out area and consequently the removal of several pine and cedar trees will be necessary to construct the location. The area is covered with moderately heavy tree growth with no grass cover whatsoever, except in the area that was seeded after dragging operations. The drillsite area has been inspected by the USGS once and by BLM personnel on two occasions.

September 9, 1974

Pennzoil Company
Drawer 1139
Denver, Colorado

Re: Well No. LaSal Federal #1
Sec. 35, T. 29 S, R. 24 E,
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. Said approval is, however, conditional upon the following:

- (a) necessary approval from the U.S. Geological Survey and/or Bureau of Land Management
- (b) written notification as to the type of blowout prevention equipment to be installed on said well, as well as the subsequent testing procedures to be followed.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

Due to the increase in Utah's drilling activity, and thus well inspections, it would be greatly appreciated if your company would advise this office as to your drilling contractor, rig number, and toolpusher, immediately upon spudding-in.

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands(aquifers) are encountered during drilling.

Pennzoil Company
September 9, 197
Page Two

The API number assigned to this well is 43-037-30206.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sw

cc: U.S. Geological Survey

**PENNZOIL COMPANY**

ROCKY MOUNTAIN DIVISION • COLORADO STATE BANK BUILDING
MAILING ADDRESS • P. O. DRAWER 1139 • DENVER, COLORADO 80201 • PHONE 303/892-7070

September 17, 1974

State of Utah
Dept. of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Mr. Cleon B. Beight

Re: La Sal Federal No. 1
Sec. 35, T 29 S, R 24 E
San Juan Co., Utah

Gentlemen:

In reply to your letter of September 9, 1974, regarding the captioned well, verbal approval to spud was received from the U.S. Geological Survey on September 12, 1974.

Blowout preventer equipment will consist of a double ram type space-saver with blind rams and pipe rams and one annular type (Hydril) blowout preventer. A drilling spool and choke manifold will also be installed. A Swaco adjustable choke will be provided to circulate out any gas kicks that may be encountered. All equipment will have at least a 3000 psi rating. ✓

All equipment will be pressure tested to its rated pressure upon installation and to 1000 psi on a weekly basis thereafter. Operational checks will be conducted on the blind rams after each trip out of the hole and on the pipe rams each day.

This well is being drilled by Loffland Brothers Company, Rig No. 203.
The toolpusher's name is Mr. Nick Nichols.

If additional information is needed please do not hesitate to contact this office at your convenience.

Very truly yours,

PENNZOIL COMPANY

Robert C. Arceneaux

Robert C. Arceneaux
Operations Superintendant

RCA/bg

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved. P. 7
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

Utah 014905

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

La Sal Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

35 29S 24E

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
PENNZOIL COMPANY

3. ADDRESS OF OPERATOR
P. O. Drawer 1139. Denver, Colorado 80201

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

1550' FNL & 1840' FWL

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)

7028 Gr.

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

NOTICE OF INTENTION TO:

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

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other) Drilling Progress
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.)*

Drilling at 2343'

Spud on 9-16-74, Set 16" conductor pipe at 66' KB.
Set 9-5/8" surface pipe at 1423' KB.

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

SIGNED Robert C. Greenleaf TITLE Operations Superintendent DATE 10-15-74

(This space for Federal or State office use)

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

November 15, 1974

Pennzoil Company
Drawer 1139
Denver, Colorado

Re: Well No. LaSal Federal #1
Sec. 35, T. 29 S, R. 24 E,
San Juan County, Utah

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months of September and October, 1974, on the subject well.

Rule C-22(1), General Rules and Regulations requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b (U.S. Geological Survey 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information.

Your cooperation relative to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SCHEREE WILCOX
EXECUTIVE SECRETARY

: SW

Iron Slates
Pennzoid - U. S. G. S.

1) T.P. 10,406

9850 - 10,100 - across Mass.

2) 4500 - 4650 - across Piedmont and top

3) 3600 - 3700 - " Germania of hill

4) 2050 - 2150 - " Charlie

5) 1450 - 1500 - surface covering

6) 152 ft / of surface.

5 **PENNZOIL COMPANY**



ROCKY MOUNTAIN DIVISION • COLORADO STATE BANK BUILDING
MAILING ADDRESS • P. O. DRAWER 1139 • DENVER, COLORADO 80201 • PHONE 303/892-7070

PI
7
November 20, 1974

State of Utah
Division of Oil and Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Scheree Wilcox
Executive Secretary

Re: Well No. La Sal Federal #1
Sec. 35, T 29 S, R 24 E,
San Juan County, Utah

Gentlemen:

In regards to your letter of November 15, 1974, please find enclosed required "Sundry Notice and Reports on Wells" for October and November, 1974.

If we can be of any further assistance, please do not hesitate to contact this office.

Very truly yours,

PENNZOIL COMPANY

Robert C. Arceneaux

Robert C. Arceneaux
Operations Superintendent

RCA/bg
enclosures

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved Budget Bureau No. 42-R1424

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 [X] GAS WELL [] OTHER []
2. NAME OF OPERATOR PENNZOIL COMPANY
3. ADDRESS OF OPERATOR P. O. Drawer 1139, Denver, Colorado 80201
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface
1550' FNL & 1840' FWL
14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7028 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 [], FRACTURE TREAT [], SHOOT OR ACIDIZE [], REPAIR WELL [], (Other) []
PULL OR ALTER CASING [], MULTIPLE COMPLETE [], ABANDON* [], CHANGE PLANS []
SUBSEQUENT REPORT OF: WATER SHUT-OFF [], FRACTURE TREATMENT [], SHOOTING OR ACIDIZING [], (Other) Drilling Progress [X]
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.)*
11-19-74 TD - 10,242' - Circulating and conditioning mud for DST #1.

18. I hereby certify that the foregoing is true and correct
SIGNED Robert C. [Signature] TITLE Operations Superintendent DATE 11-20-74

(This space for Federal or State office use)
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



ROCKY MOUNTAIN DIVISION • COLORADO STATE BANK BUILDING
MAILING ADDRESS • P. O. DRAWER 1139 • DENVER, COLORADO 80201 • PHONE 303/892-7070

November 26, 1974

State of Utah
Division of Oil and Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Re: Sundry Notices and Reports of Wells
La Sal Federal No. 1
San Juan Co., Utah

Gentlemen:

Please find enclosed original and two copies of the above captioned report regarding the La Sal Federal No. 1.

If we can be of any further assistance, please do not hesitate to contact this office.

Respectfully yours,

PENNZOIL COMPANY

Robert C. Arceneaux
Operations Superintendent

RCA/bg
enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> Dry Hole		5. LEASE DESIGNATION AND SERIAL NO.																				
2. NAME OF OPERATOR PENNZOIL COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME																				
3. ADDRESS OF OPERATOR P. O. Drawer 1139, Denver, Colorado 80201		7. UNIT AGREEMENT NAME																				
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1550' FNL 1840' FWL		8. FARM OR LEASE NAME La Sal Federal																				
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7028 Gr.	9. WELL NO. 1																				
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT Wildcat																				
<table border="0"> <tr> <td colspan="2">NOTICE OF INTENTION TO:</td> <td colspan="2">SUBSEQUENT REPORT OF:</td> </tr> <tr> <td>TEST WATER SHUT-OFF <input type="checkbox"/></td> <td>PULL OR ALTER CASING <input type="checkbox"/></td> <td>WATER SHUT-OFF <input type="checkbox"/></td> <td>REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREAT <input type="checkbox"/></td> <td>MULTIPLE COMPLETE <input type="checkbox"/></td> <td>FRACTURE TREATMENT <input type="checkbox"/></td> <td>ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td>SHOOT OR ACIDIZE <input type="checkbox"/></td> <td>ABANDON* <input checked="" type="checkbox"/></td> <td>SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td>ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td>REPAIR WELL <input type="checkbox"/></td> <td>CHANGE PLANS <input type="checkbox"/></td> <td>(Other) <input type="checkbox"/></td> <td>(Other) <input type="checkbox"/></td> </tr> </table>		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 checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>	REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 35 29S 24E
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 checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>																			
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>																			
		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 checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(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.)*

The following plugging instructions were verbally approved by Mr. Jerry Long on 11-22-74.

Cement plugs to be set across the following intervals:

9850-10,100'	130 sks.
4500- 4650	70 sks.
3600- 3700	50 sks.
2050- 2150	45 sks.
1450- 1500	45 sks.
Surface	15 sks.

Verbal approval to plug was also obtained from the Bureau of Land Management and the State of Utah, Division of Oil and Gas Conservation.

APPROVED BY DIVISION OF OIL & GAS CONSERVATION

DATE **NOV 29 1974**

BY *C.B. [Signature]*

18. I hereby certify that the foregoing is true and correct
SIGNED *Robert C. [Signature]* TITLE Operations Superintendent DATE 11-26-74

(This space for Federal or State office use)

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

PENNZOIL COMPANY



S

ROCKY MOUNTAIN DIVISION • COLORADO STATE BANK BUILDING
MAILING ADDRESS • P. O. DRAWER 1139 • DENVER, COLORADO 80201 • PHONE 303/892-7070

December 2, 1974

State of Utah
Division of Oil and Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Re: Sundry Notices and Reports on Wells
La Sal Federal No. 1
San Juan County, Utah

Gentlemen:

Please find enclosed two copies of the above captioned report,
regarding the La Sal Federal No. 1.

If we can be of any further assistance, please do not hesitate
to contact this office.

Respectfully yours,

PENNZOIL COMPANY

Robert C. Arceneaux
Robert C. Arceneaux
Operations Superintendent

RCA/bg
enclosures

PENNZOIL COMPANY

LA SAL FEDERAL NO. 1

San Juan County, Utah

Geological Report

By: Bob Brill
Consulting Geologist
Denver, Colorado

December 2, 1974

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SUMMARY

OPERATOR: Pennzoil Company

WELL: La Sal Federal No. 1

LOCATION: 1550' FNL, 1840' FWL
Section 35, Township 29 South, Range 24 East
San Juan County, Utah

ELEVATIONS: K.B. 7041' - Ground 7028'

TOTAL DEPTH: Schlumberger 10,400'
Driller 10,406'

SPUD DATE: September 15, 1974

COMPLETION DATE: November 23, 1974

STATUS: Plugged and Abandoned

DRILLSTEM TESTS: Mississippian 10,167'-10,242'

DEEPEST FORMATION PENETRATED: Mississippian

DRILLING MEDIUM: Fresh water gel and saturated salt water gel

DRILLING CONTRACTOR: Loffland Bros. and Company
Rig No. 203 - U15

DRILLING SUPERVISOR: Jim Fleener

WELLSITE GEOLOGIST: Bob Brill

MUD LOGGING SERVICES: Colorado Plateau - one man

MUD SERVICES: Magobar - Mohab, Utah

TESTING SERVICES: Halliburton

ELECTRIC LOGS: Schlumberger
Dual Induction Laterolog 1423'-10,400'
I-BHC-SONIC-GG 1423'-10,400'
Comp. Neutron 60' - 5,000'

CASING RECORD:

16" Conductor @ 60'
9-5/8" Surface @ 1472'

PLUGGING DATA:

9850' - 10,100' -130 sacks
4500' - 4,650' - 70 sacks
3600' - 3,700' - 50 sacks
2050' - 2,150' -155 sacks

FORMATION TOPS

NOTE: Samples and sample tops were not lagged above base of salt section - see note under sample descriptions.

Elevations G.L. 7028', D.F. 7040' & K.B. 7041'

FORMATIONS	Sample	Schlumberger	
	Surface	Depth	Datum
Dakota - Burro Canyon			
Morrison - Brushy Basin	205	194	+6847
Salt Wash	455	448	+6593
Summerville	898	888	+6153
Entrada	1014	909	+6132
Carmel	1198	1188	+5853
Navahoe No Returns		1310	+5731
Kayenta	1692	1679	+5362
Wingate	1866	1816	+5225
Chinle	2093	2090	+4951
Moenkopi	2354	2356	+4685
Cutler	2726	2706	+4335
Hermosa	3667	3660	+3381
Normal Fault @	4540	4540	+2501
Paradox	4540	4540	+2501
Paradox Salt	4622	4588	+2453
Cane Creek Marker	9024	9033	-1992
Base Salt	9924	9931	-2890
Pinkerton Trail	9952	9975	-2934
Molas?	10,023		
Mississippian	10,052	10,050	-3009
Total Depth	Driller 10,046	Schlumberger	10,400

DRILLSTEM TEST

Mississippian 10,167' - 10,242'

Initial Flow	20 mins. Weak to good blow in 6 mins.
Initial Shut In	60 mins.
Final Flow	155 mins. Good blow throughout with no decrease. No gas to surface.
Final Shut in	300 mins.
Recovered	

180' Drilling Mud
2000' Fresh Water Cushion
3000' Salt Water - 60,000 PPM-CL
28,000 PPM-Ca
64 PPM-NO₃

MFE Sampler

.003 CFG
2050 CC Salt Water 57,000 PPM Cl @ 57°F
Gas from Salt Water C₁ 3122 PPM
C₂ 122 PPM
C₃ 30 PPM

Pressures

Initial Flow	883.8 psi
Initial Final Flow	1253.5 psi
Initial Shut In	3091.7 psi
Final Flow	1253.5 psi
	2357.8 psi
Final Shut In	3091.7 psi
Initial Hydrostatic	5701.4 psi
Final Hydrostatic	5701.4 psi

Bottom Hole Temperature 150°F

SAMPLE AND MUDLOG SHOWS

NOTE: Mudlogging unit started logging at 1472' on drilling out from under 9-5/8" surface casing.

				Gas show
460 -	70	Black Uranium mineral show	Fair	
480 -	90	Black Uranium mineral show	Trace	
550 -	60	Black Uranium mineral show	Trace	
570 -	80	Black Uranium mineral show	Trace	
590 -	600	Black Uranium mineral show	Trace	
680 -	710	Black Uranium mineral show	Trace	
730 -	850	Black Uranium mineral show	Trace	
1,650 -	1,685	Spotted dark brown-black oil residue	Poor	
1,800 -	1,810	Spotted dark brown-black oil residue	Poor	
1,810 -	1,870	Traces of oil residue as above	Poor	
2,070 -	2,090	Spotted dark brown oil residue	Poor	
2,310 -	2,335	Spotted dark brown oil residue	Poor	
2,440 -	2,450	Trace dark brown oil residue	Poor	Trace
2,710 -	2,750	Trace black residue	Poor	Poor
3,028 -	3,050	Spotted black residue	Poor	Poor
3,130 -	3,140	Spotted dark brown oil residue	Poor	Poor
3,230 -	3,240	Spotted black residue	Poor	Poor
3,270 -	3,280	Spotted black residue	Poor	Poor
3,610 -	3,620	Spotted black Uranium mineral		
4,240 -	4,270	Spotted dark brown oil reserve	Poor	Poor
5,870 -	5,880	Trace dark brown-black oil residue	Poor	Poor
5,920 -	5,930	Trace dark brown-black oil residue	Poor	Poor
10,060 -	10,070	Trace dead oil stain	Poor	Poor
10,080 -	10,090	Trace dead oil stain	Poor	Poor

Gas Shows with no accompanying sample shows:

2,848 -	2,864	Poor - Fracture show	Siltstone, shale-trace sand
2,912 -	2,940	Poor - Fracture show	Siltstone
3,718 -	3,740	Poor - Fracture show	Sand, shale & lime
4,500 -	4,525	Poor - Coal gas show	
4,858 -	4,880)	
4,915 -	4,925)	
5,015 -	5,101)	
5,020 -	5,026)	
5,106 -	5,112)	
5,200 -	5,250)	
5,794 -	5,880	Broken)	All shale gas shows from black shale which exhibited fine pinpoint of bleeding gas and occasional light blue yellow fluorescence.
6,484 -	6,492)	
6,780 -	6,786)	
6,798 -	6,816)	
9,070 -	9,080)	
9,496 -	9,520)	
9,642 -	9,680)	
9,926 -	9,955)	
10,000 -	10,020	Caved black shale)	

Summary of shows:

No shows of gas or oil encountered in this well were worthy of testing.

The oil shows encountered at different levels between 1650' and 10,090' ranged from spotted dark brown to black, residual, asphaltic hydrocarbons that exhibited poor fluorescence and cut. The accompanying gas shows were also of poor quality.

No shows of live oil were encountered. The heavy, dark brown, hydrocarbon residue encountered above the salt section appeared to be contaminated by oxygenation from percolated, fresh, ground water. This condition caused plugging of reservoir permeability with the heavy immobile residue.

It would appear that most, if not all, of the oil shows encountered above the salt section were the result of migrated hydrocarbons from the deeper evaporite sediments via faults and fractures. The lighter hydrocarbons escaped, and the heavier hydrocarbons were later altered by percolating, fresh, ground water from the north and east.

SAMPLE DESCRIPTIONS

Although many loss circulation zones were encountered in the upper portion of the hole and loss circulation material prevented obtaining samples from the shaker screen, sample quality was fair to good except from 1260' to 1470' where no returns were available due to loss circulation.

Ten foot samples were caught from the base of the conductor pipe at 60' to 7100'. Twenty foot samples were caught from the lower portion of the salt section down to just below the base of the salt at 9924'. Ten foot samples were caught from the base of the salt to total depth with the exception of some five foot samples caught through the porous intervals of the Mississippian.

Hot wire and hydrogen flame, chromatograph monitors functioned very efficiently and were frequently tested with sample gas.

DAKOTA - BURRO CANYON MEMBER

60' - 150'

Sandstones, white with pink to orange and brown grains included, hard, sharp and calcareous, fine to very coarse, subangular to subrounded and occasionally fragmented, poorly sorted tight to fair porosity.

Conglomerates, multi-colored, fragmented, angular to rounded pebbles, quartz, some igneous rock, coarse dark brown mica and some shale and limestone fragments and pebbles.

Shale some thin stringers of light green, bentonitic and dark gray to black with occasional traces of rust red.

150' - 170'

Sandstone, white, fine-coarse, subrounded, tight with some tannish yellow, fine-medium, angular to subangular, medium sorted, slightly argillaceous sandstone and traces of rust red shale. Sandstone becomes fine and angular towards base.

170' - 205'

Interbedded maroon sandstones, fine, angular, argillaceous, becoming maroon and lavender, fine to coarse with traces of pebble conglomerates towards base, siltstone, maroon and shale, maroon, with some light green, bentonitic shale.

MORRISON - BRUSHY BASIN MEMBER

205' - 240'

Shale mostly maroon to reddish brown with some similar colored siltstones and minor light green bentonitic claystone.

240' - 445' Shale, mostly maroon to reddish brown and light green, green and gray bentonitic becoming multicolored in lower portion with some lavender and mottled green and maroon shale as above. Occasional large white calcite crystals indicating possible fracture filing.

445' - 455' Sandstone, gray green to gray, fine to submedium, subangular to subrounded with some loose medium to coarse, subrounded, frosted and pitted quartz grains and a trace of orange subrounded chert pebbles.

MORRISON - SALT WASH MEMBERS

455' - 510' Sandstone tan to dark gray and black, fine to near medium, angular to subangular, well sorted to poorly sorted, calcareous with abundant to sparsely spotted black, calcareous uranium mineral matrix. Streaks of limestone - thin brown, hard, dense, argillaceous and sandy. Some shale, maroon, gray green, green and tan.

510' - 735' Interbedded sandstones, tan to occasional dark gray to black, fine to medium and occasionally coarse, subangular to subrounded, poorly sorted with several showings of black uranium mineral, shale maroon, rust brown, and lesser gray green and some siltstone maroon to rust red and traces of limestone nodules.

735' - 755' Conglomerate of multicolored igneous pebbles, boulders and fragments and occasional dense, gray brown, limestone fragments with traces of sand, shale and siltstone as above.

755' - 900' Interbedded shales and sandstones and some siltstones as above with thin, pink to light tan, fine crystalline limestones towards base. Some loose multicolored coarse to very coarse angular to subrounded quartz grains throughout and occasional shows of black uranium mineral.

SUMMERVILLE

900' - 1,015' Mostly rust red shales and siltstones, slightly calcareous with occasional sandstones white to light gray, fine grained angular to subangular and limestones rust red to pink fine crystalline to dense.

ENTRADA

- 1,015' - 1,120' Sandstone, gray white, very fine to fine, subangular to subrounded, well sorted, occasionally medium, subrounded, frosted and pitted, calcareous with streaks of fair to good porosity.
- 1,120' - 1,180' Sandstone white to gray, very fine to fine as above with spotted dark brown asphaltic oil stain, spotted dull yellow fluorescence, very weak, slow, light yellow cut.
- 1,180' - 1,198' Sandstone as above with no show as above.

CARMEL

- 1,198' - 1,260' Shale, maroon and rust red with occasional light green and lavender along with some siltstone, maroon and rust red and sandstone white to gray, very fine to fine, occasionally medium grained, subrounded and calcareous.
- 1,260' - 1,470' Loss circulation - drilled with no returns.

NAVAHOE

- 1,470' - 1,600' Sandstone light gray to buff, very fine to fine, subangular to subrounded, well sorted, calcareous, with uniform traces of pyrite throughout. Occasional thin streaks of dark, reddish brown shale and siltstone.
- 1,600' - 1,610' Sandstone as above, slightly speckled with green shale inclusions and orange quartz grains, angular, well sorted with spotted dark brown dead oil stain, no gas, odor or taste and dull yellow fluorescence and pale yellow cut. Some shale and siltstone as above.
- 1,610' - 1,650' Sandstone as above.
- 1,650' - 1,680' Sandstone, white, gray, light green and pink, fine to near medium, subangular to subrounded, well sorted, calcareous with spotted dark brown to dead oil stain. Dull yellow to spotted bright yellow fluorescence, light yellow cut and light yellow ring. Some shale and siltstone as above.
- 1,680' - 1,800' Sandstone, rust red, very fine to fine, micaceous, pyritic, calcareous, argillaceous and grading to siltstone. Siltstone,

reddish brown, micaceous and slightly calcareous. Some shale, reddish brown. Rare pink dense limestone and white calcite crystals.

1,800' - 1,820' Sandstone, buff and gray, fine, angular to subangular, calcareous with spotted brown to dark brown oil stain, slight taste, no gas, no fluorescence, fair yellow cut and yellow orange ring. Poor to fair porosity plugged with oil residue. Trace of shale as above.

1,820' - 2,028' Sandstone, buff to light gray, very fine to fine, well sorted, calcareous and pyritic. Rust red shale and siltstone as above.

Pipe Stuck @ 2,028'

2,028' - 2,070' Sandstone as above becoming medium grained towards base.

2,070' - 2,093' Sandstone, white, as above with spotted streaks of fair to good porosity and dark brown residual oil stain. Spotted pale yellow fluorescence and slow, light yellow cut and yellow orange ring. No gas.

CHINLE

2,093' - 2,310' Interbedded shales, maroon and rust red, siltstones, maroon and rust red and sandstones, white, gray green and rust red, very fine to fine and occasionally medium, fair to well sorted, calcareous occasionally micaceous. Some limestone, salmon red to rust red, fine crystalline and dense. Scattered gray to tan limestone nodules.

2,310' - 2,345' Sandstone, white to light gray, fine, angular, calcareous, brown mica, slightly speckled with green and pink grains. Spotted light brown oil stain, very weak, dull, yellow fluorescence, slow light bluish yellow cut with slight orange yellow ring. Sand is tight. Some shale and siltstone as above and gray and tan dense limestone.

MEONKOPI

2,345' - 2,440' Siltstone, light green, calcareous and micaceous and shale, light green to green, occasionally silty and micaceous. Traces of gray to gray green fine crystalline limestone and gray white fine grained sandstone with rare traces of dark brown residual oil stain.

2,440' - 2,450' Sandstone, light gray to tan speckled, very fine to fine, angular, calcareous, micaceous, occasionally carbonaceous with streaked, brown, residual oil stain. No fluorescence, slow, weak, pale yellow cut and poor porosity.

2,450' - 2,500' Sandstone as above with no residual oil stain.

2,500' - 2,726' Siltstone, rust red to reddish orange, micaceous and calcareous with occasional thin streaks of pink and tan dense limestone, rust red, fine grained sandstone and rust red, maroon and green shale.

CUTLER

2,726' - 3,667' Siltstones, rust red to reddish brown and micaceous. Shale maroon, rust red, reddish brown, occasionally light green and lavender. Granite wash and arkosic sands of multi-colored, fine to coarse, subangular to occasionally sub-rounded, micaceous, calcareous with rare traces of dark brown residual oil and black uranium mineral. Some pink and tan dense limestone streaks and limestone nodules.

HERMOSA

3,667' - 4,240' Limestones, buff, gray, brown, fine crystalline to dense, occasionally mottled and micaceous with rare indistinct fossils and traces of brown chert. Shales, gray, dark gray, gray green, maroon and rust red. Siltstones, gray green micaceous. Sandstones, white to gray, speckled, very fine to fine, calcareous and micaceous.

4,240' - 4,270' Sandstone, buff, fine to near coarse, poorly sorted, micaceous with trace of pink feldspar. Dark brown residual oil stain, near dead, very weak odor and taste, very weak dull yellow fluorescence, weak yellow cut and light orange yellow ring. Porosity poor now due to plugging by residual oil. No observed live oil, poor but complete gas shows of C₁ through C₅.

4,270' - 4,500' Limestones, shales, siltstones and sandstones as above. Limestones predominant in upper and lower portion of interval.

4,500' - 4,540' Shale, tannish gray, calcareous and gray green and green silty, limestone tan to gray tan fine crystalline to dense and slightly argillaceous and beds of coal, black vitrious and firm.

Normal Fault @ 4,540' with some + 1200' of throw.

PARADOX

4,540' - 4,622'

Anhydrite mottled gray and white, massive and fine to medium crystalline. Limestone tan to brown, fine crystalline and argillaceous, becomes dolomitic and earthy towards base. Shale, dark gray, black and gray green with increase of black soft, calcareous shale towards base. Anhydrite and, to some extent, limestones above become pitted with leached salt spots towards base.

PARADOX SALT SECTION

4,622' - 5,050'

Interbedded anhydrite, mostly loose, white, fibrous crystals and crystal aggregates with some mottled gray and white as above. Leached salt pits result in some drussy crystalline texture. Dolomite tan to brown fine crystalline, finely sucrossic and mostly earthy argillaceous with occasional salt casts and leached salt pits. Shale black, soft to firm, calcareous and occasionally bleeding, fine pinpoint of gas and giving a spotted to even light blueish yellow fluorescence.

5,050' - 5,120'

Mostly loss circulation material with traces of lithology as above and rare pink potash minerals.

5,120' - 6,260'

Salt clear, coarse crystalline with some cloudy white, anhydritic, coarse crystals. Anhydrite, white, soft to gummy and mottled gray and white crystalline with leached salt pits and masses of clear to cloudy white anhydritic salt. Shale black as above.

6,260' - 6,400'

Salt as above with traces of pink potash minerals.

6,400' - 7,660'

Salt, with occasional interbeds of anhydrite, dolomite and shale as above.

7,660' - 7,760'

Salt as above and pink to pinkish orange potash minerals.

7,760' - 7,980'

Salt, anhydrite, dolomite and shale as above.

7,980' - 8,000'

Salt as above with some cubic crystals of salt.

8,000' - 8,460'

Salt with some interbeds of anhydrite, dolomite and shale as above.

- 8,460' - 8,660' Salt as above with some pale pink to pink potash minerals.
- 8,660' - 9,024' Salt as above with occasional interbeds of anhydrite, dolomite and shale as above.

PARADOX - CANE CREEK MEMBER

- 9,024' - 9,140' The Cane Creek member has no diagnostic lithology and was determined solely on interval thickness and drilling time to laterolog correlations with the nearby Pure-Big Indian No. 1 well.

Anhydrite, dolomite and shale as above.

- 9,140' - 9,800' Salt with interbeds of anhydrite, dolomite and shale as above.

- 9,800' - 9,924' Salt as above with occasional fine black carbonaceous specks included.

- 9,924' - 9,952' Interbedded anhydrite, dolomite and black shale as above.

PINKERTON TRAIL

- 9,952' - 10,023' Limestone, brown, dense, gray and tan mottled chalky to dense and gray, chalky and soft. Limestone occasionally is pelletoidal and fossiliferous with indistinct fossils. Traces of brown and cloudy white transparent chert.
Shale, light green with traces of fine, crystalline pyrite.

MOLAS OR EROSIONAL MISSISSIPPIAN INFILL

- 10,023' - 10,052' Limestone, buff dense and white fine crystalline, pelletoidal and indistinct fossiliferous. Traces of pale smoky, cloudy white and pale pinkish tan chert.
Shale light green to green pyritic.
Siltstone, trace of orangish red and finely micaceous.
Claystone orange, soft to firm.

MISSISSIPPIAN

- 10,052' - 10,180' Limestone, chalky white, soft, white, fine crystalline and buff dense with occasional pelletoidal, skeletal and oolitic textures. Traces of smoky chert and dark brown to black stylolites. Rare pyrite.

10,180' - 10,235'

Dolomite, tan to brown, fine crystalline, sucrossic to dense with occasional fine vugs in upper portion filled with black asphaltic residue. Sucrossic dolomite develops fair intercrystalline porosity with depth with a continuation of fine vuggy porosity. No show. Traces of tan to brown chert and rare tannish gray spicular chert.

10,235' - 10,325'

Limestone buff to tan, fine crystalline to dense, skeletal to abundantly oolitic with occasional soft white chalky lime. Some loose, white, coarse crystalline calcite and traces of brown and milky white chert: Dolomite, buff, fine crystalline sucrossic with fair vugular and intercrystalline porosity - No show.

10,325' - 10,380'

Dolomite brown, fine crystalline, sucrossic and dense with some tannish gray fine crystalline, sandy dolomite with some coarse rounded floating quartz grains. Poor to fair intercrystalline and vugular porosity. Traces of brown chert and speckled tan chert near tripolitic. Some dense oolitic limestone as above. Dolomite and limestones becomes pyritic towards base.

10,380' - 10,395'

Limestone, dark gray, argillaceous, grading to limey shale with many white and brown specks included. Some dolomite as above.

10,395' - 10,400'

Limestone grayish tan, fine crystalline, becoming gray to light gray green, fine crystalline with occasional floating, coarse, subrounded, frosted and pitted, quartz grains.



ROCKY MOUNTAIN DIVISION • COLORADO STATE BANK BUILDING
MAILING ADDRESS • P. O. DRAWER 1139 • DENVER, COLORADO 80201 • PHONE 303/892-7070

December 17, 1974

State of Utah
Department of Natural Resources
Division of Oil and Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Re: La Sal Federal No. 1
San Juan County, Utah

Gentlemen:

Please find enclosed the following on the above captioned well:

1. Four copies of "Report of Water Encountered During Drilling."
2. One copy of "Well Completion or Recompletion Report and Log."
3. One copy of "Geological Report."

If you have any questions or need additional information, please do not hesitate to contact this office.

Very truly yours,

PENNZOIL COMPANY

Robert C. Arceneaux
Operations Superintendent

RCA/bg
enclosure

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS CONSERVATION
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number La Sal Federal No. 1

Operator PENNZOIL COMPANY

Address P. O. Drawer 1139, Denver, Colorado 80201

Contractor Loffland Bros. Company

Address P. O. Box 688, Farmington, N.M.

Location SE 1/4, NW 1/4; Sec. 35; T. 29 ~~N~~_S; R. 24 E.; San Juan County.
-W-

Water Sands:

<u>Depth:</u>		<u>Volume:</u>	<u>Quality:</u>
From -	To -	Flow Rate or Head -	Fresh or Salty -

1. No water sands were tested and no water flows were encountered.
2. _____
3. _____
4. _____
5. _____

(Continue on Reverse Side of Necessary)

Formation Tops:

- NOTE:
- (a) Upon diminishing supply of forms, please inform this office.
 - (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
 - (c) If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See instructions on reverse side)

Form approved, Budget Bureau No. 42-R355.5

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WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

La Sal Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

35 29 S 24 E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

2. NAME OF OPERATOR

PENNZOIL COMPANY

3. ADDRESS OF OPERATOR

P. O. Drawer 1139, Denver, Colorado 80201

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

At surface 1550' FNL 1840' FWL

At top prod. interval reported below

At total depth

14. PERMIT NO. DATE ISSUED

15. DATE SPUDDED 9-16-74 16. DATE T.D. REACHED 11-21-74 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 7028 Gr. 19. ELEV. CASINGHEAD 7027

20. TOTAL DEPTH, MD & TVD 10406 MD 21. PLUG, BACK T.D., MD & TVD Surface 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS X CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Induction Laterolog, Compensated Sonic & Neutron 27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
16		63	20"	5½ cu. yds. Ready Mix	None
9-5/8	36#	1423	13-3/4"	1050 sks	None

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) P & A

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

FLOW. TUBING PRESS.	CASING 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

Geologic Report

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

SIGNED Robert C. Arnesen Operations Superintendent DATE 12-17-74

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

INSTRUCTIONS

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

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

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

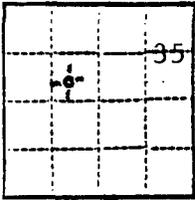
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
<p>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</p>						
			<p>SEE GEOLOGIC REPORT</p>			
			<p>DSF #1: 10,165' - 10,242' Mississippi 2,000 ft. fresh water cushion</p> <p style="margin-left: 40px;">Initial Hydrostatic - 5701# 20 Min. Initial Flow - 884# - 1253# 60 Min. Initial Shut-in - 3092# 150 Min. Final Flow - 1253# - 2357# 300 Min. Final Shut-in - 3092# Final Hydrostatoc - 5701#</p> <p>Drill Pipe Recovery: 2000' WC, 180' Mud, 2962' SW Sample Chamber Rec: 2050 cc SW</p>			
<p>38. GEOLOGIC MARKERS</p>						

DEC 19 1974

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

Sec. _____ 35
T. _____ 29S
R. _____ 24E
_____ Mer.



INDIVIDUAL WELL RECORD

PUBLIC LAND: _____ **Date** September 3 1982 **Ref. No.** _____

Land office Utah **State** Utah
Serial No. 50036 **County** San Juan (Grant)
Lessee Union Oil Co. of California **Field** Wildcat
Operator Pennzoil Company **District** Durango
Well No. 1 La Sal Federal **Subdivision** SENW
Location 1550' FNL & 1840' FWL

Drilling approved 9/12, 1974 **Well elevation** 7028 gl, 7041 kb feet
Drilling commenced 9/16, 1974 **Total depth** 10,406 feet
Drilling ceased 11/21, 1974 **Initial production** Dry
Completed for production 11/24, 1974 **Gravity A. P. I.** _____
Abandonment approved 8/30, 1982 **Initial R. P.** _____

Geologic Formations		Productive Horizons		
Surface	Lowest tested	Name	Depths	Contents
<u>Dakota</u>	<u>Mississippian</u>			

WELL STATUS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1974									DRG		Abd.	
1982								P&A				

REMARKS Geologic Markers: See Well File

Casing Record: 16" cc @ 63' w/5 1/2 cu. yds
9 5/8" cc @ 1423' w/1050 sxs

QWR

NumCaps

API NUMBER 4303730206 DOGM LOCATION CORRECT FLAG

WELL NAME 1 LA SAL-FEDERAL
OPERATOR PENNZOIL EXPLOR & PROD CO

1550FNL 1840FWL SENW SECTION 35 TOWNSHIP 29.0 S RANGE 24.0 E

SPUD DATE 09/16/1974 COMPLETION DATE 11/23/1974 WELL STATUS P+A

DRILLING METHOD ROTARY

ELEVATION 7041KB 7028GR

FIELD WILDCAT COUNTY SAN JUAN STATE UTAH

PRODUCING HORIZON

UTM EAST 653348.98 UTM NORTH 4233737.90 UTM ZONE 12 SOURCE GCDB CALC

TOTAL DEPTH 10406 MERIDIAN SALT LAKE

~~INSPECTION~~

LEASE NO. FEE

GENERAL REMARKS