

Sharon

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Utah
LEASE NUMBER 0140593
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Sevier Field Emery

The following is a correct report of operations and production (including drilling and producing wells) for the month of MAR 1968, 19____,

Agent's address P.O. Box 11368 Company MOUNTAIN FUEL SUPPLY COMPANY
Salt Lake City, Utah 84111 Signed J. Murphy

Phone 328-8315 Agent's title DIVISIONAL CHIEF ACCOUNTANT

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE NE 1	22S	5E	1							Spudded 3-12-68 T.D. 3,050 P & A 3-20-68
<u>UTAH 0140593 Pacific Natural Gas</u>										

NOTE.—There were _____ runs or sales of oil; _____ M cu. ft. of gas sold;

_____ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

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 Wildcat

SINGLE ZONE

MULTIPLE ZONE

2. NAME OF OPERATOR

Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR

P. O. Box 1129, Rock Springs, Wyoming 82901

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

At surface
1980' FSL, 660' FWL

CNW SW

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

10 miles north of Bluff, Utah

15. DISTANCE FROM PROPOSED*

660'

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) -

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

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

GR 4777'

16. NO. OF ACRES IN LEASE

800

19. PROPOSED DEPTH

5705

17. NO. OF ACRES ASSIGNED TO THIS WELL

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

May 25, 1968

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0145834

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Northwest Bluff

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat New Field

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

14-39S-22E., SLB&M

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
13-3/4	10-3/4	32.75	500	285 sacks
7-7/8	5-1/2	17	To be determined	

We would like your permission to drill the subject well to an estimated depth of 5705'. Anticipated formation tops are as follows: Morrison at the surface, Summerville at 450', Entrada at 500', Carmel at 550', Navajo at 650', Kayenta at 1150', Wingate at 1250', Chinle at 1650', DeChelly at 2700', Organ Rock at 2800', Cutler at 3450', Hermosa group at 4600', Ismay zone at 5400', "B" marker at 5560', Desert Creek zone at 5600' and salt at 5700'.

"Designation of Operator" forms are attached.

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

BW Craft

TITLE

General Manager,
Gas Supply Operations

DATE

May 16, 1968

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

May 17, 1968

Mountain Fuel Supply Company
P. O. Box 1129
Rock Springs, Wyoming 82901

Re: Well No. Northwest Bluff #1, Sec. 14,
T. 39 S., R. 22 E., San Juan County.

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify Paul W. Burchell, Chief Petroleum Engineer (Home: 277-2890 - Salt Lake City, Utah, Office: 328-5771).

This approval terminates within 90 days if the well has not been spudded-in within said period.

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered while drilling. Your cooperation with respect to completing this form will be greatly appreciated.

The API number assigned to this well is 43-037-30012.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sc

cc: U. S. Geological Survey
Jerry Long, District Engineer
Box 1809
Durango, Colorado

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Utah
LEASE NUMBER _____
UNIT Bluff Field Area

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field Bluff Field Area

The following is a correct report of operations and production (including drilling and producing wells) for the month of MAY 1968, 19____,

Agent's address P.O. Box 11368 Company MOUNTAIN FUEL SUPPLY COMPANY

Salt Lake City, Utah 84111 Signed E. Murphy

Phone 328-8315 Agent's title DIVISIONAL CHIEF ACCOUNTANT

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<u>Utah 0145834 Sinclair Oil & Gas</u>										
NW SW 14	39S	22E	1							Spudded 5-28-68 Drilling 555' 5-31-68

NOTE.—There were _____ runs or sales of oil; _____ M cu. ft. of gas sold;

_____ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS CATEGORY*
(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 <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Wildcat		5. LEASE DESIGNATION AND SERIAL NO. Utah 0145834
2. NAME OF OPERATOR Mountain Fuel Supply Company		6. INDIAN, ALLOTTEE OR TRIBE NAME -
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		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 1980' FSL, 660' FWL NW SW		8. FARM OR LEASE NAME Northwest Bluff
14. PERMIT NO. -		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 4777'		10. FIELD AND POOL OR WILDCAT Wildcat
		11. SEC. T., R., M., OR BLE, AND SURVEY OR AREA 14-39S-22E T1B&M
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

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

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

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

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

Depth 2245', drilling.

Spudded May 28, 1968.

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

SIGNED BW Craft TITLE General Manager, Gas Supply Operations DATE June 10, 1968

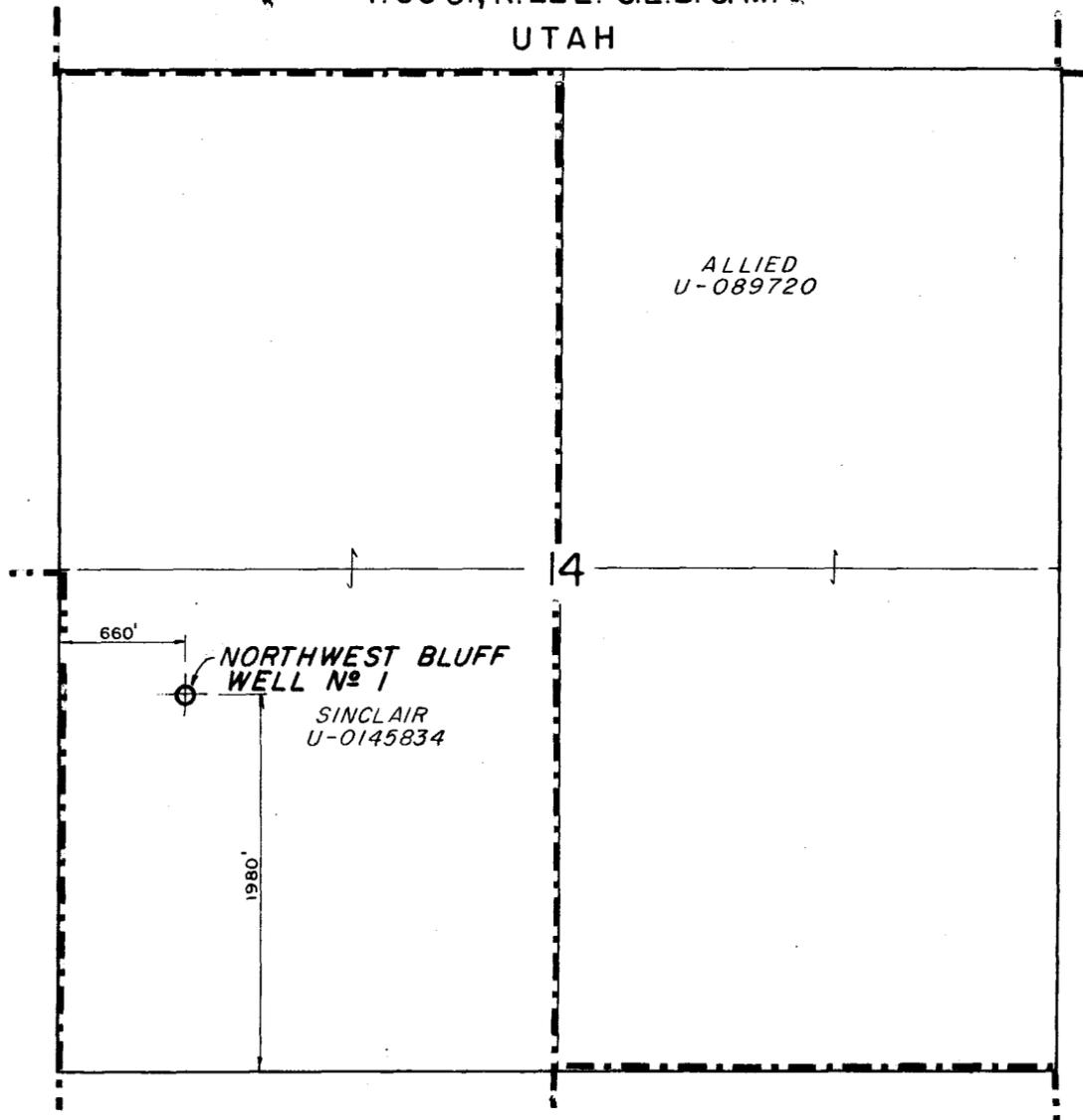
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

T. 39 S., R. 22 E. S. L. B. & M.

UTAH



LOCATION DATA

WELL - Northwest Bluff No 1

FIELD - Northwest Bluff

LOCATION

1980' From South Line
 660' From West Line
 NW SW Section 14, T. 39 S., R. 22 E. S. L. B. & M.
 San Juan County, Utah

ELEVATION

4777' ground

SURVEYED BY

Ernst Engineering Co., Durango, Colorado.

DATE OF REPORT

May 6, 1968.

ENGINEER'S AFFIDAVIT

STATE OF WYOMING }
 COUNTY OF SWEETWATER } s.s.

I, K.A. Loya of Rock Springs Wyoming, hereby certify that this map was made from notes taken during an actual survey made under my direction by Ernst Engineering Co. Durango, Colorado on May 3, 1968; and that it correctly represents the location thereon with section measurements based on the official survey Plat of Township 39S., R. 22 E., S. L. B. & M. Utah.

K.A. Loya
 Engineer

Utah Registration No 2707

REVISIONS				MOUNTAIN FUEL SUPPLY COMPANY ROCK SPRINGS, WYOMING	
NO.	DESCRIPTION	DATE	BY	WELL LOCATION	
				NORTHWEST BLUFF WELL No 1	
				NW SW SEC. 14, T. 39 S., R. 22 E. S. L. B. & M. SAN JUAN COUNTY, UTAH	
				DRAWN: 5-6-68 D.C.H.	SCALE: 1" = 1000'
				CHECKED: <i>Rum</i>	DRWG. NO. M-9301
				APPROVED: KAL	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0145834

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Northwest Bluff

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

14-39S-22E., SLB&M

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 Wildcat

2. NAME OF OPERATOR Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1980' FSL, 660' FWL NW SW

14. PERMIT NO. -

15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 4789.20' GR 4777'

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) Supplementary history
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.)*

Depth 4691', drilling.

Landed 524.80' net, 527.55' gross of 10-3/4"OD, 32.75#, H-40 casing at 537.00' KBM and set with 375 sacks of cement treated with 2-1/2% calcium chloride, full returns while circulating, mixing and displacing cement, returned 10 barrels cement slurry to pits.

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

SIGNED B.W. Craft

General Manager,

TITLE Gas Supply Operations

DATE June 11, 1968

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

Shaw
Form 9-331
(May 1963)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP DATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0145834

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Northwest Bluff

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

14-39S-22E., SLB&M

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 Wildcat

2. NAME OF OPERATOR
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR
P. O. Box 1129, Rock Springs, Wyoming 82901

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

1980' FSL, 660' FWL, NW SW

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
KB 4789.20' GR 4777'

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) Supplementary history
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.)*

Depth 5506', coring.

s/t: Navajo 748', Chinle 1740', Shinarump 2585', DeChelly 2800' and Organ Rock 2870'.

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

SIGNED BW Croft

General Manager,
TITLE Gas Supply Operations

DATE June 17, 1968

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

Vertical text on the right side of the page, possibly a stamp or administrative note, partially obscured and difficult to read.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Utah
LEASE NUMBER _____
UNIT Bluff Field Area

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field Bluff Field Area

The following is a correct report of operations and production (including drilling and producing wells) for the month of JUN 1968, 19____,

Agent's address P.O. Box 11368 Company MOUNTAIN FUEL SUPPLY COMPANY

Salt Lake City, Utah 84111 Signed E. Murphy

Phone 328-8315 Agent's title DIVISIONAL CHIEF ACCOUNTANT

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW 14	39S	22E	1		<u>Utah 0145834 Sinclair Oil & Gas</u>					Spudded 5-28-68 Drilling 5,908' Coring 6-30-68 ✓

NOTE.—There were _____ runs or sales of oil; _____ M cu. ft. of gas sold;

_____ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

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COMPLETION REPORT

Area: Cowboy Date: July 23, 1968

Well: Cowboy Well No. 1 (Northwest Bluff Well No. 1)

New Field Wildcat Development Well Shallower Pool Test

New Pool Wildcat Extension Deeper Pool Test

Location: 1980 feet from South line, 660 feet from West line

NW $\frac{1}{4}$ SW $\frac{1}{4}$ or $\frac{1}{2}$

Section 14, Township 39 South, Range 22 East

County: San Juan State: Utah

Operator: Mountain Fuel Supply Company

Elevation: 4789.20 feet kelly bushing, 4777 feet ground

Drilling Commenced: May 28, 1968 Drilling Completed: July 5, 1968

Rig Released: July 7, 1968 Total Depth: 6031 feet, Plug Back Depth: 5992 feet

Log Tops:

Log Tops: (Cont.)

Morrison	Surface	Cutler Evaporites	3611'
Navajo	721'	Hermosa	4800'
Chinle	1746'	Ismay	5630'
Shinarump	2467'	"B" zone	5820'
Moenkopi	2534'	Desert Creek	5864'
De Chelly	2830'	Akah	5965'
Organ Rock	2950'	Salt	6020'

Producing Formation: Ismay

Production: 382 BOPD, 12-1/2 BWPD, and 200 MCFPD

Status: Oil well

Perforations: 5759'-5800'

Stimulation: Acidized

Casing: 10-3/4" landed at 537' KBM with 375 sacks cement. 5-1/2" landed at 6031.10' KBM with 477 sacks cement.

Logging - Mud: Underwood Well Logging Service - Surface pipe to total depth

Electric: Dual Induction-Laterolog surface pipe to total depth, Sonic Gamma Ray surface pipe to total depth, Sidewall Neutron-Porosity 4800'-6028', selected levels for synergetic computations.

Contractor: Mesa Drillers

Remarks: Cored 5491'-6025' in 14 cores

COMPLETION REPORT (cont.)

Area: Cowboy

Well: Cowboy Well No. 1

Tabulation of Drill Stem Tests

<u>DST</u>	<u>Interval</u>	<u>IFP</u>	<u>ISIP</u>	<u>FFP</u>	<u>FSIP</u>	<u>Remarks</u>
1	5629'-5692'	258-344(60)	323(60)	423-419(91)	316(92)	NGTS, rec. 780' mud
2	5738'-5801'	189-1085(180)	1757(120)	706-868 (18 hr. 38 min.)	1645(181)	Produced 310 barrels of oil during test and gas at 100 Mcf per day
3	5882'-5937'	46-49(15)	112(60)	157-171(120)	335(241)	Second flow 102-115(60), second shut in 206(120), NGTS, rec. 300' mud
4	5954'-5973'	38-56(60)	66(60)	85-95(60)	88(60)	NGTS, rec. 200' mud
5	5937'-5995'	33-174(60)	1965(60)	227-294(90)	1967(91)	NGTS, rec. 280' mud and 270' salt water

VBG:kjc

FIELD Cowboy STATE Utah COUNTY San Juan SEC. 14 T. 39S R. 22E

COMPANY Mountain Fuel Supply FARM Cowboy (Northwest Bluff) WELL NO. 1

LOCATION 1980' FSL, 660' FWL ELEV. 4789.20' K.B., 4777' Gr.

DRILLING COMMENCED May 28, 1968 COMPLETED July 5, 1968

RIG RELEASED July 7, 1968 PLUGGED BACK DEPTH 5992'

CASING RECORD 10-3/4" landed at 537' KBM with 375 sacks cement.

5-1/2" landed at 6031.10' KBM with 477 sacks cement.

TUBING RECORD _____

PERFORATIONS 5759'-5800'

o	14		

I. P. GAS 200 MCFPD OIL 382 BOPD, 12-1/2 BWPD

SANDS _____

SHUT-IN SURFACE PRESSURES _____

REMARKS Cored 5491'-6025' in 14 cores

=====

	<u>FROM</u>	<u>TO</u>
No samples.	0	555
Sandstone, light grey to white, fine-grained, fairly well sorted, subrounded, frosted, some tan to light reddish brown, all unconsolidated in samples.	555	570
Sandstone, as above, more red to brown grains, red clay on grains; some shale, red to brown. Sample is light reddish-brown in color.	570	630
Sandstone, as above; increase of red shale, as above.	630	748
Sandstone, white to light tan, fine-grained, subrounded, fairly well sorted, all unconsolidated, frosted, clear; few particles of red shale, as above (may be cave). Some sand grains are very fine-grained.	748	810
Sandstone, as above; trace of shale, as above; some sand grains have red stain, sample has a light reddish-tan appearance (all unconsolidated).	810	900
Sandstone, as above, less red stain, sample appears light tan; some very fine sandstone.	900	1140
Sandstone, as above; very light tan, dominantly very fine-grained, few red (stained?) grains; trace of red shale, in small particles.	1140	1470
Sandstone, light brown, fine-grained to very fine-grained, fairly well sorted, subrounded, some clear and frosted grains, mostly light reddish brown grains; trace of shale, red, silty. Sample is light brown in color, all unconsolidated.	1470	1710
Sandstone, as above; increase of brown grains, becoming more poorly sorted with some medium-sized grains, mostly very fine-grained, light brown grains.	1710	1740
Shale, dark reddish-brown, silty in part, platy, soft to firm, slightly calcareous in part; trace of sandstone, white, fine-grained, subrounded, grains in clusters, calcareous.	1740	1770
Ditto; some white clay, earthy, soft, slightly calcareous; trace of light green shale, slightly calcareous, mottled with reddish brown shale.	1770	1800

FIELD Cowboy SEC. 14 T. 39S R. 22E PAGE 2
 FARM Cowboy (Northwest Bluff) WELL NO. 1
 COMPANY Mountain Fuel Supply Company

	<u>FROM</u>	<u>TO</u>
Shale, reddish-brown, silty in part, soft to firm, platy; some sandstone, as above.	1800	1830
Sandstone, light brown, fine-grained to very fine-grained, fairly well sorted, unconsolidated, clear to frosted, subrounded; some reddish-brown shale, as above.	1830	1860
Shale, reddish-brown, silty and arenaceous, firm, blocky; trace of light grey sandstone, fine-grained, fairly well sorted, calcareous, in clusters; trace of light green mottled shale.	1860	1990
Shale, as above, except less arenaceous and silty; trace of sandstone, as above and loose sand grains.	1990	2290
Shale, as above; trace of light green shale, appears to be mottling on reddish-brown shale; trace of sandstone, as above.	2290	2470
Sandstone, light grey to white, fine-grained (some medium-grained), subangular, clear to white grains, some subrounded and frosted; some shale, as above.	2470	2500
Sandstone, as above; increase of shale, as above, becoming arenaceous; shale, light greenish-grey, blocky.	2500	2530
Shale, reddish-brown, as above, some arenaceous, mostly all clay; increase of shale, light greenish-grey, as above (several shades of reddish-brown shale).	2530	2570
Shale, as above, with quartz granules, clear to tan and light to dark grey; some shale, light grey with fine maroon and dark grey streaks; some sandstone, light grey, fine-grained to silty, calcareous, fairly well sorted, hard, tight (dominantly reddish-brown shale).	2570	2680
Shale, reddish-brown and greenish-grey, as above; some sandstone, as above.	2680	2710
Shale, as above; sandstone, medium reddish-brown to light grey, fine-grained, fairly well sorted, friable, calcareous; some siltstone, reddish-brown, arenaceous to argillaceous.	2710	2800
Shale, reddish-brown, as above; sandstone, light grey, fine-grained, subrounded, calcareous, clay filled; some shale, pink, firm, platy.	2800	2830
Sandstone, frosted quartz grains, subrounded to rounded, coarse-grained to very coarse-grained, all unconsolidated; shale, as above and fine-grained sandstone, as above.	2830	2890
Decrease of coarse to very coarse quartz grains; shale and sandstone, as above; some siltstone, reddish-brown, argillaceous to arenaceous, calcareous; some light greenish-grey shale, as above.	2890	2920
Ditto; with no coarse to very coarse quartz grains.	2920	3000
Ditto, dominantly siltstone and red shale; some very coarse-grained to granule size quartz grains, angular to subrounded, clear, brown and dark grey.	3000	3080
Shale, reddish-brown, as above; some siltstone and greenish-grey shale, as above; trace of quartz grains, as above; trace of sandstone, light grey, fine-grained to very fine-grained, fairly well sorted, friable.	3080	3260
Ditto; increase of greenish-grey shale.	3260	3300
Ditto; some maroon shale.	3300	3380
Shale, greenish-grey and red, as above; siltstone, as above; some quartz grains, granule to coarse-grained size, subrounded to angular, white to dark grey; abundant grey and variegated shale.	3380	3430
Ditto, increase of quartz grains (conglomeratic sandstone), medium-grained to very coarse-grained, clear, frosted, subrounded; trace of limestone, light grey, dense, very hard.	3430	3590
Ditto; with sandstone, light grey, fine-grained, fairly well sorted, friable, tight, no show; some anhydrite.	3590	3620
Shale, red, variegated and grey, as above; some sandstone, as above; some anhydrite.	3620	3690
Ditto; with some quartz grains, coarse-grained to granule size, subrounded to angular, clear to milky, some in clusters, mostly loose.	3690	3790

FIELD Cowboy SEC. 14 T. 39S R. 22E PAGE 3
 FARM Cowboy (Northwest Bluff) WELL NO. 1
 COMPANY Mountain Fuel Supply Company

	FROM	TO
Ditto, dominant red shale, slight increase of quartz grains, as above.	3790	3860
Shale, siltstone and some sandstone, as above; decrease of quartz grains; shale, medium grey, firm, blocky.	3860	3900
Shale, red, firm, blocky, with some silty in part, with some variegated color; trace of quartz grains, as above.	3900	4050
Shale, maroon to purple, firm, blocky; shale, as above; trace of quartz grains, as above.	4050	4200
Shale, red, maroon, as above, with some grey shale, as above; trace of sandstone, white to light green, very fine-grained, hard to tight.	4200	4380
Shale, as above; trace of sandstone, as above; trace of limestone, brown, dense, microcrystalline.	4380	4390
Shale, as above; trace of sandstone, as above.	4390	4420
Shale, red, as above, green, as above, trace of maroon, as above; trace of sandstone, as above.	4420	4500
Shale, red, as above, green, as above; trace of sandstone, as above.	4500	4780
Shale, red, as above; shale, green to grey, waxy; trace of sandstone, as above; trace of limestone(?).	4780	4840
Shale, as above; with some dark grey shale; sandstone, as above.	4840	4870
Limestone, grey, dense, some calcite, fine crystalline; trace of anhydrite; shale, as above; trace of chert.	4870	4890
Limestone, as above; shale, as above, predominately red and grey.	4890	4900
Shale, as above.	4900	4920
Limestone, as above; shale, as above;	4920	4930
Shale, as above; trace of limestone, as above.	4930	5090
Limestone, as above; shale, as above, predominately red and dark grey.	5090	5100
Shale, as above; trace of limestone, as above.	5100	5140
Limestone, as above, fossil fragments; shale, as above.	5140	5160
Shale, as above; some limestone, as above.	5160	5180
Shale, as above; trace of limestone, as above.	5180	5220
Limestone, as above; shale, as above.	5220	5240
Shale, as above; some limestone, as above.	5240	5260
Limestone, as above; some shale, as above.	5260	5270
Shale, as above; trace of limestone, as above.	5270	5280
Shale, as above; some limestone, as above.	5280	5320
Limestone, light grey, fine crystalline, dense; trace of shale, as above.	5320	5340
Limestone, as above; shale, as above.	5240	5260
Shale, as above; trace of limestone.	5260	5280
Limestone, light grey to brown, fine crystalline, dense.	5280	5410
Shale, as above; limestone, as above.	5410	5420
Limestone, as above; possible stained slight, some oolitic limestone.	5420	5440
Limestone, as above; some shale, as above; trace of shale, brown, silty, firm.	5440	5450
Shale, as above; some limestone, as above.	5450	5470
Shale, as above, predominately grey and brown; some limestone, as above.	5470	5480
Shale, as above; limestone, brown, very sandy.	5480	5491
<u>CORE #1 - 5491'-5538' (recovered 47')</u>		
Limestone, light grey, very fine crystalline to fine crystalline, dense, hard.	5491	5496
Limestone, as above; with trace of dark chert.	5496	5497
Limestone, light grey, lithographic with concoidal fracture.	5497	5502
Limestone, as above; fine crystalline to medium crystalline, with large brachiopods (1" to 1½" in diameter).	5502	5506
As above; with lime mud inclusions.	5506	5507
Limestone, as above; with chert stringers.	5507	5508
Limestone, as above.	5508	5509

FIELD Cowboy SEC. 14 T. 39S R. 22E PAGE 4
 FARM Cowboy (Northwest Bluff) WELL NO. 1
 COMPANY Mountain Fuel Supply Company

	<u>FROM</u>	<u>TO</u>
Limestone, light grey, fine crystalline with brachiopods and crinoid fragments.	5509	5511
Limestone, light grey, coarse crystalline, with brachiopod and crinoid fragments; limestone, as above, interbedded.	5511	5520
Limestone, medium grey to dark grey, very fine crystalline to lithographic, brachiopods, shaly partings.	5520	5527
Limestone, very dark grey, lithographic, with brachiopods and oysters, very organic smell, very hard.	5527	5533
Shale, very dark grey, very limey, organic.	5533	5536
Limestone, as above, with dark brown chert.	5536	5537
Limestone, fine crystalline, very dark grey, fossiliferous.	5537	5538
<u>CORE #2 - 5538'-5598' (recovered 54.5')</u>		
Limestone, medium grey, fine crystalline, slightly argillaceous; with abundant chert (nodules), dark grey to black; some calcite inclusions, tight.	5538	5545
Shale, black, very calcareous, fossiliferous (brachiopods, crinoids, etc.).	5545	5546
Limestone, as above, without chert; some limestone, very dark grey, lithographic; few fossils (brachiopods), tight.	5546	5551
Limestone, light grey to medium grey, very fine crystalline, dense; trace of fossil debris in parts, tight.	5551	5555
Limestone, medium grey to dark grey, fine crystalline, argillaceous, lithographic in part, hard, tight.	5555	5565
Limestone, light grey to medium grey, fine crystalline to very fine crystalline, trace of fossil debris, hard, tight, very few black shale partings.	5565	5575
Limestone, as above, with trace of black chert nodules and very few stylolites and black shale partings.	5575	5577
Limestone, as above, trace of small anhydrite inclusions.	5577	5580
Limestone, medium grey, very fine crystalline, dense, hard, tight, few black shale partings, few fossils (brachiopods).	5580	5583
Limestone, fossil debris, medium crystalline, tightly cemented, hard and tight, some anhydrite inclusions.	5583	5585
Limestone, dark grey, very fine crystalline, argillaceous (lithographic).	5585	5586
Limestone, light grey to medium grey, dense, tight.	5586	5592
Limestone, light to medium grey, fossil debris, with some light to medium grey chert, limestone is hard and tight.	5592	5592½
No recovery.	5592½	5598
No samples	5598	5599
<u>CORE #3 - 5599'-5615' (recovered 16')</u>		
Limestone, medium grey, very fine crystalline, argillaceous, some fossils (brachiopods, etc.), slickensides at 5602' and 5603'.	5599	5610
Shale, very dark grey to black, limy, slight trace of pyrite, trace of fossils, breaks into "poker chips", (5614'-5615' is badly broken, fractured?).	5610	5615
<u>CORE #4 - 5615'-5671' (recovered 55')</u>		
Limestone, medium grey, fine crystalline, argillaceous, dense.	5615	5618
Shale, very dark grey to black, limy, platy (poker chips), stylolites at 5623', fossiliferous, small brachiopods, etc.	5618	5627
Limestone, medium grey, fossil debris, argillaceous, hard, tight.	5627	5628
Limestone, medium grey, argillaceous, fine crystalline, some fine fossiliferous particles, dense; black chert at 5629'-5630' and vertical fractures at 5630'-5632' and 5634'-5635.5', fractures at 5634'-5635.5' are bleeding oil; few large brachiopods at 5632'-5633' no visible porosity.	5628	5637

	<u>FROM</u>	<u>TO</u>
Limestone, light grey to medium grey, sandy, fine-grained, no visible porosity; sand grains are fine-grained, rounded, clear.	5637	5646
Limestone, medium grey, fine crystalline, dense, hard, few scattered anhydrite inclusions, some broken fossil debris, slickensides at 5652' and 5655', with some calcite filling.	5646	5656
Limestone, as above, few stylolites.	5656	5660
Limestone, medium grey, argillaceous, some fossil debris, fine crystalline, hard and tight; stylolites at 5663'; chert nodules at 5665'-5666' and 5668'-5669'.	5660	5670
No recovery.	5670	5671
<u>CORE #5</u> - 5671'-5690' (recovered 19')		
SIM depth correction to 5692'		
Limestone, medium grey, slightly argillaceous, fine crystalline, some small brachiopods, very hard and tight; chert, dark grey to black at 5673'-5674', 5675.5', 5677.5'-5678', 5682.5', 5685', and 5686.7'; closed vertical fractures at 5675.5'-5676' and 5679'; one inch black shale parting at 5679.6'.	5671	5690
<u>CORE #6</u> - 5692'-5722' (recovered 30')		
Limestone, medium grey, slightly argillaceous, very fine crystalline, few scattered fossils (brachiopod shells), hard and tight; chert nodules at 5693'-5694' and 5696'-5697'; few black shale partings.	5692	5701
Limestone, medium grey to dark grey, very fine crystalline, very argillaceous, hard and tight, scattered chert nodules.	5701	5706
Shale, black to very dark grey, very silty, limy, trace of fossil particles, very abundant fusulinids; some chert at 5710'-5713' and 5719'-5720'.	5706	5720
Limestone, medium grey, microcrystalline, some fossil debris, hard and tight.	5720	5722
<u>CORE #7</u> - 5722'-5741' (recovered 15')		
Limestone, medium grey, very fine crystalline, some fossil debris and few small brachiopods, hard and tight, few black shale partings with slickensides; limestone is argillaceous in part; chert nodules, black at 5725'-5729'.	5722	5736
Limestone, light grey to medium grey, microcrystalline, some fossil debris, few anhydrite inclusions, no visible porosity.	5736	5737
No recovery.	5737	5741
<u>CORE #8</u> - 5741'-5801' (recovered 30 ³⁴)		
Limestone, light grey, fine crystalline, hard, dense, some calcite veins.	5741	5745
No recovery(?).	5745	5771
Limestone, as above; with carbonaceous material, horizontal and vertical fractures.	5771	5773
Limestone, as above; some pin head sized vugs, oil stain, porous.	5773	5775
Limestone, light grey, very fossiliferous, some coquina and and algae plates, very vuggy, bleeding oil and gas from tighter zones, vug $\frac{1}{4}$ " in diameter, porosity 15% to 20%.	5775	5777 $\frac{1}{2}$
Limestone, light grey, fine crystalline, hard, tight, dense.	5777 $\frac{1}{2}$	5779
Limestone, light grey, fine crystalline, fossiliferous, with fractures and vugs, bleeding oil and gas.	5779	5782 $\frac{1}{2}$
Limestone, light grey, some coquina and algae plates, very soft and extremely vuggy, 20-30% porosity, tighter parts bleeding oil and gas.	5782 $\frac{1}{2}$	5788

FIELD Cowboy SEC. 14 T. 39S R. 22E PAGE 6
 FARM Cowboy (Northwest Bluff) WELL NO. 1
 COMPANY Mountain Fuel Supply Company

	<u>FROM</u>	<u>TO</u>
Limestone, light grey, hard, tight, dense.	5788	5789
Limestone, light grey, coquina and algae plates, as above, most of core probably missing from here.	5789	5800
Limestone, light grey, hard, tight, dense.	5800	5801
<u>CORE #9</u> - 5801'-5816.5' (recovered 12')		
Limestone, light grey, fine crystalline, hard, dense, trace of vugs, gas odor.	5801	5802
Limestone, light grey, fine crystalline, hard, tight, dense, some fractures; trace of chert, inclusions of lithographic limestone.	5802	5813
<u>CORE #10</u> - 5817'-5877' (recovered 60')		
Shale, black, firm, organic odor.	5817	5839
Dolomite, black, fine crystalline, hard, dense.	5839	5840
Shale, black, as above.	5840	5859
Dolomite, as above, fossiliferous.	5859	5860
Shale, as above.	5860	5861
Dolomite, as above.	5861	5865
Shale, as above.	5865	5866
Dolomite, black, fine crystalline, hard to shaly, bleeding green oil and gas.	5866	5869½
Dolomite, as above, hard, tight, no show.	5869½	5871
Dolomite, light grey, microcrystalline, hard, tight, flinty, with some fractures and some anhydrite in lower foot.	5871	5877
<u>CORE #11</u> - 5877'-5937' (cut 60' - recovered 60')		
Limestone, buff to light grey, microcrystalline, fossiliferous, with dolomite inclusions, hard, dense.	5877	5887½
Limestone, black to dark grey, fine crystalline, argillaceous, some slight bleeding of oil and gas, 10 unit kick.	5887½	5903
Limestone, buff to light grey, as above.	5903	5922
Limestone, light grey, fossiliferous, with vuggy porous vugs smaller than 1/8" diameter, bleeding oil and gas.	5922	5926½
Limestone, light grey, fine crystalline, hard, tight.	5926½	5928
Limestone, porous, as above; bleeding oil and gas.	5928	5934
Limestone, light grey, fine crystalline, hard, tight.	5934	5935
Limestone, light grey, fine crystalline, slightly porous, bleeding salt water.	5935	5937
<u>CORE #12</u> - 5937'-5973' (recovered 35.5')		
Limestone, dark grey, hard and tight, fractured, bleeding oil and gas.	5937	3938½
Limestone, light grey, earthy in part, arenaceous in part, argillaceous, small vugs and some porosity with oil staining.	5938½	5950½
Limestone, medium grey to dark grey, argillaceous, some brachiopods, looks tight, few fractures bleeding oil and gas.	5950½	5954½
Limestone, medium grey, fine crystalline, trace of pyrite, hard and tight.	5954½	5958½
Shale, black, few fossil remains, hard, brittle, "poker chips".	5958½	5972½
<u>CORE #13</u> - 5973'-5995' (recovered 22')		
Shale, black "poker chips", carbonaceous, some fossil remains, abundant slickensides.	5973	5990
Limestone, medium grey, arenaceous, some fossils, pyrite on many fossil casts, hard and tight.	5990	5991

FIELD Cowboy SEC. 14 T. 39S R. 22E PAGE 7
 FARM Cowboy (Northwest Bluff) WELL NO. 1
 COMPANY Mountain Fuel Supply Company

	<u>FROM</u>	<u>TO</u>
Shale, black, carbonaceous, poker chips.	5991	5992 $\frac{1}{2}$
Limestone, medium grey, slightly arenaceous and argillaceous, hard and tight, bleeding oil at 5992 $\frac{1}{2}$ ' from one horizontal fracture.	5992 $\frac{1}{2}$	5995
<u>CORE # 14 - 5995'-6025' (recovered 25')</u>		
SIM correction to 6031'		
Limestone, medium grey, fine crystalline, argillaceous, fine anhydrite crystals, hard and tight, slightly arenaceous; limestone at 5998'-5999', medium grey, clay filled coquina, with some anhydrite inclusions, hard and tight.	5995	6001
Dolomite, medium grey to dark grey with white streaks, very hard and tight; some anhydrite.	6001	6003
Shale, dark grey, calcareous, very hard and tight, silty; fine anhydrite crystals; horizontal fractures bleeding oil from 6003'-6007 $\frac{1}{2}$ ', tight.	6003	6010
Dolomite, light grey to medium grey, dense, translucent, very anhydritic, very hard and tight.	6010	6020
Salt (none recovered in core but 5' of core was missing), mud salinity went from 1200 to 4000 ppm when we drilled into it, drill rate increased from 25 minutes per foot to 6 minutes per foot.	6020	6025

OCA-SSL:kjc
 8/6/68

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

SUBMIT IN TRIPLI
(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.)

<p>1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Wildcat</u></p>	<p>5. LEASE DESIGNATION AND SERIAL NO. <u>Utah Oil 58345</u></p>
<p>2. NAME OF OPERATOR <u>Mountain Fuel Supply Company</u></p>	<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME <u>None</u></p>
<p>3. ADDRESS OF OPERATOR <u>P. O. Box 1129, Rock Springs, Wyoming 82901</u></p>	<p>7. UNIT AGREEMENT NAME <u>None</u></p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface</p> <p><u>1980' FSL, 660' FWL, NW SW</u></p>	<p>8. FARM OR LEASE NAME <u>Northwest Bluff</u></p>
<p>14. PERMIT NO. <u>-</u></p>	<p>9. WELL NO. <u>14-396-22E., S1B85</u></p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>KB 4789.20' GR 4777</u></p>	<p>10. FIELD AND POOL, OR WILDCAT <u>Wildcat</u></p>
<p>16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data</p>	<p>11. SEC., T., R., E., M., OR B&M, AND SURVEY OF AREA <u>14-396-22E., S1B85</u></p>
<p>17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and 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.)*</p>	<p>12. COUNTY OR PARISH <u>San Juan, Utah</u></p>

NOTICE OF INTENTION TO:

<p><input type="checkbox"/> TEST WATER SHUT-OFF</p> <p><input type="checkbox"/> FRACTURE TREAT</p> <p><input type="checkbox"/> SHOOT OR ACIDIZE</p> <p><input type="checkbox"/> REPAIR WELL</p> <p>(Other)</p>	<p><input type="checkbox"/> PULL OR ALTER CASING</p> <p><input type="checkbox"/> MULTIPLE COMPLETE</p> <p><input type="checkbox"/> ABANDON*</p> <p><input type="checkbox"/> CHANGE PLANS</p>
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SUBSEQUENT REPORT ON:

<p><input type="checkbox"/> WATER SHUT-OFF</p> <p><input type="checkbox"/> FRACTURE TREATMENT</p> <p><input type="checkbox"/> SHOOTING OR ACIDIZING</p> <p>(Other) <u>Supplementary history</u></p>	<p><input type="checkbox"/> REPAIRING WELLS</p> <p><input type="checkbox"/> ALTERING CASINGS</p> <p><input type="checkbox"/> ABANDONMENT*</p>
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(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Depth 5737', cutting core No. 7.

DST #1: 5692-5628', Ismay, IO 1 hour, ISI 1 hour, FO 1 1/2 hours, FSI 1 1/2 hours, Opsi 780 psi. Recovered 780 psi. drilling mud. IHP 2880, IOFP's 247-330, ISIP 309, FOFP's 412-412, FSIHP 999, FHP 999 psi.

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

SIGNED BW Craft

General Manager,
Gas Supply Operations

DATE June 25 1968

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1424.

6. LEASE DESIGNATION AND SERIAL NO.

Utah 0145834

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 [] Wildcat
2. NAME OF OPERATOR Mountain Fuel Supply Company
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1980' FSL, 660' FWL NW SW
14. PERMIT NO. - 15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 4789.20' GR 4777'

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Northwest Bluff
9. WELL NO.
10. FIELD AND POOL, OR WILDCAT Wildcat
11. SEC., T., R., M., OR BEK. AND SURVEY OR AREA 14-39S-22E., S1/4
12. COUNTY OR PARISH OR STATE San Juan UT

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) Supplementary history (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 and 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.)*
Depth 5965', cutting core No. 12.
DST #2: 5801-5738', Desert Creek, IO 3 hours, ISI 2 hours, FO 18 hours, FSI 3 hours, opened with weak blow increasing, gas in 5 minutes, oil in 1/4 hour 39 Mcf, 1/2 hour 27 Mcf, 1 hour 83 Mcf, 1 1/2 hours 100 Mcf, 1-3/4 hour 100 Mcf, oil to surface, 2-3/4 hours 100 Mcf and 20 bbls oil, 3 hours 100 Mcf and 20 bbls oil, total 25 barrels; reopened, had 100 Mcf of gas throughout, 1 hour 20 bbls oil, 20 bbls, 3 hrs 20 bbls, 4 hrs 16 bbls, 7 hrs 14 bbls, 9 hrs 14 bbls, 12 hrs 12 bbls, 15 hrs 12 bbls, 18 hrs 12 bbls, grand total of 288 bbls of 39° API gravity at 60° F. water. IHP 2956, IOFP's 195-1073, ISIP 1749, FOFP's 695-869, FSIP 160
DST #3: 5937-5882', IO 1/4 hour, ISI 1 hour, 2nd open 1 hour, 2nd SI 2 hours, FO 2 hours, FSI 4 hours, opened with weak blow continuing, no gas, reopened weak and dead in 11 minutes, final open dead, recovered 300' drilling mud. IHP 2956, IOFP's 20-30, ISIP 182, 2nd OFP's 81-91, 2nd SIP 183, FOFP's 122-153, FSIP 327, FHP 2956 psi.

18. I hereby certify that the foregoing is true and correct. SIGNED B.H. Craft, Jr. TITLE General Manager, Gas Supply Operations DATE July 13, 1963
APPROVED BY TITLE DATE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on
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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 type="checkbox"/> OTHER <input checked="" type="checkbox"/> Wildcat		5. LEASE DESIGNATION AND SERIAL NO. Utah 0145834
2. NAME OF OPERATOR Mountain Fuel Supply Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		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 1980' FSL, 660' FWL NW SW		8. FARM OR LEASE NAME Cowboy
14. PERMIT NO. -		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 4789.20' GR 4777'		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA 14-39S-22E., USLB&M
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Name change <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 and proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and pertinent to this work.)*

The name of this well has been changed from Northwest Bluff Well No. 1 to
Cowboy Well No. 1.

18. I hereby certify that the foregoing is true and correct
SIGNED B. W. Craft TITLE General Manager, Gas Supply Operations DATE July 15, 1968

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0145834

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Northwest Bluff

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

14-39S-22E., SLB&M

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 Wildcat

2. NAME OF OPERATOR
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR
P. O. Box 1129, Rock Springs, Wyoming 82901

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

1980' FSL, 660' FWL NW SW

14. PERMIT NO. - 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
KB4789.20' GR 4777'

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) Supplementary history
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 dates of starting and 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.)*

Total Depth: 6031', rig released July 7, waiting on completion tools.

Landed 6017.90' net, 6064.64' gross of 5 1/2" OD, 17#, J-55 casing at 6030.10' KBM and 38' with 477 sacks of salt saturated cement.

DST #4: 5973-5954', Desert Creek, IO 1 hour, ISI 1 hour, FO 1 hour, FSI 1 hour, opened with very weak blow, dead in 1/4 hour, reopened dead, no gas to surface, recovered 200' drilling mud. IHP 3014, IOFP's 20-30, ISIP 51, FOFP's 61-82, FSIP 61, FHP 3014 psi.

DST #5: 5995'-5937', Desert Creek, IO 1 hour, ISI 1 1/2 hours, FO 1 1/2 hours, FSI 1 1/2 hours, opened with weak blow on both openings continuing, no gas to surface, recovered 80' drilling mud and 270' salt water. IHP 3027, IOFP's 50-183, ISIP 1974, OHP's 235-286, FSIP 1987, FHP 3027 psi.

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

SIGNED BW Craft

TITLE General Manager, Gas Supply Operations

DATE July 10, 1968

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

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

10

5. LEASE DESIGNATION AND SERIAL NO.
Utah 0145834

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
-

7. UNIT AGREEMENT NAME
-

8. FARM OR LEASE NAME
Cowboy

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
14-39S-22E., SLB&M

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

2. NAME OF OPERATOR
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements):
At surface 1980' FSL, 660' FWL NW SW
At top prod. interval reported below Same
At total depth Same

14. PERMIT NO. _____ DATE ISSUED _____

15. DATE SPUDDED 5-28-68 16. DATE T.D. REACHED 7-5-68 17. DATE COMPL. (Ready to prod.) 7-18-68 18. ELEVATIONS (DF, REE, BT, GR, ETC.):* KB 4789.20' GR 4777' 19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD & TVD 6031 21. PLUG, BACK T.D., MD & TVD 5992 22. IF MULTIPLE COMPL., HOW MANY* - 23. INTERVALS DRILLED BY ROTARY TOOLS 10-6031 CABLE TOOLS -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5759-5800' - Ismay 25. WAS DIRECTIONAL SURVEY MADE -

26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Induction-Laterolog 27. WAS WELL COMED? Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT FILLED
10-3/4	32.75	537.00	13-3/4	375	0
5-1/2	17	6,030.10	7-7/8	477	0

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8	5759.11	

31. PERFORATION RECORD (Interval, size and number) 5759-5800' - jet, 4 holes per foot

32. A.C.D. SHOT, FRACTURE, GRIPPER, ROUGHNECK, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5759-5800	15,000 gals, 15% HCL

33. PRODUCTION

DATE FIRST PRODUCTION 7-18-68 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing

DATE OF TEST 7/21-23/68 HOURS TESTED 48 CHOKER SIZE 3/4 PROD'N. FOR TEST PERIOD → OIL—BBL. 764 GAS—MCF. 400 WATER—BBL. 25

FLOW. TUBING PRESS. 50 CASING PRESSURE 635 CALCULATED 24-HOUR RATE → OIL—BBL. 380 GAS—MCF. 200 WATER—BBL. 12 1/2 OIL GRAVITY (API) 39.5

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented while testing

TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS Dual Induction-Laterolog, Well Completion, Well Lithology

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.
General Manager,
SIGNED BW Coyle TITLE Gas Supply Operations DATE July 23, 1968

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

EXHIBIT 10

FORM OGC-8-X

FILE IN QUADRUPLICATE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION
1588 West North Temple

SALT LAKE CITY, UTAH 84111

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number #1 North West Bluff
Operator Mountain Fuel Supply Co Address Salt Lake city, Utah Phone 328-8315
Contractor Mesa Drillers Address Farmington, New Mexico Phone _____
Location NW 1/4 SW 1/4 Sec. 14 T. 39 S R. 22 E San Juan County, Utah
Water Sands: LMS

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1. <u>5937</u>	<u>- 5995</u>	<u>See 270' in Drill Pipe</u>	<u>Salt water</u>
2.			
3.			
4.			
5.			

(Continued on reverse side if necessary)

Formation Tops: Desert Creek zone 5864'

Remarks:

- NOTE:
- (a) Upon diminishing supply 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, (See back of form)
 - (c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.



MOUNTAIN FUEL SUPPLY COMPANY

625 CONNECTICUT AVENUE • P. O. BOX 1129 • ROCK SPRINGS, WYOMING 82901 • PHONE 307-362-5611

August 20, 1968

Mr. C. B. Feight, Director
Utah Oil and Gas Conservation Commission
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Feight:

Mountain Fuel Supply Company recently completed an exploratory well, Cowboy Well No. 1, as a crude oil well. This well is located in NW 1/4, SW 1/4, Section 14, Township 39 S., Range 22 E., San Juan County, Utah.

The well is a pumping oil well and is producing approximately 100 M cubic feet of gas per day in excess of the gas used on the lease to operate the treater and the pumping engine. This excess gas is presently being flared to atmosphere. Since it would be uneconomical at this time to compress and sell the gas, we would like your permission to continue to flare this gas until such time that the gas can economically be gathered and sold.

Thank you for your cooperation.

Very truly yours,

R. G. Myers
Chief Petroleum Engineer

RGM/gm

August 21, 1968

Mountain Fuel Supply Company
P. O. Box 1129
Rock Springs, Wyoming 82901

Attention: Mr. R. G. Myers, Chief Petroleum Engineer

Dear Mr. Myers:

Please be advised that this Division has no objection to the flaring of gas from your Cowboy Well No. 1, located in Section 14, Township 39 South, Range 22 East, San Juan County, Utah.

Very truly yours,

DIVISION OF OIL AND GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:cnp



MOUNTAIN FUEL SUPPLY COMPANY

180 EAST FIRST SOUTH • P. O. BOX 11368 • SALT LAKE CITY, UTAH 84111 • PHONE 328-8315

R. J. BRUNNER
• TAX DEPARTMENT SUPERVISOR

October 13, 1971

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

Gentlemen:

Pursuant to your telephone request, we submit that the
Cowboy Oil Field was sold by Mountain Fuel Supply Company to
Willard Pease Drilling Company effective June 1, 1971.

Yours truly,

R. J. Brunner

RJB:sw

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form 8-329 Rev. Feb 76
OMB 42-RO356

MONTHLY REPORT
OF
OPERATIONS

Lease No. U-014 01

Communitization Agreement No. _____
Field Name COWBOY
Unit Name _____
Participating Area _____
County San Juan State Utah
Operator WILLARD REASE OIL & GAS COMPANY

Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of May, 19 77

(See Reverse of Form for Instructions)

This report is required by Law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 716 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	T&P	WGS	Well Status	Days Prod.	*Barrels of Oil	*SCF of Gas	*Barrels of Water	Remarks
1	14	398	222	POW	5	85	0	0	-
Back on production									
2	14	398	222	POW	21	104	0	0	-
3	14	398	222	POW	28	391	0	0	-

*If none, so state.

Reconciliation of production (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
Produced, Start of Month	260	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Produced	580	none	none
Wells	590	none	XXXXXXXXXXXXXXXXXXXX
Abandoned or Lost	none	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Acquired or Vented	XXXXXXXXXXXXXXXXXXXX	none	XXXXXXXXXXXXXXXXXXXX
Produced on Lease	none	none	XXXXXXXXXXXXXXXXXXXX
Abandoned	none	none	none
Produced on Pits	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	none
Other (Identify)	none	none	none
Produced, End of Month	250	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
API Gravity/BTU Content	-	none	XXXXXXXXXXXXXXXXXXXX

Authorized Signature: Lu Rhodes
Title: Secretary

Address: 570 Kennecott Bldg, SLC, UT 84138



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

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

January 14, 1987

Mr. Robert H. Lovell
Wexpro Company
79 South State Street
P.O. Box 11070
Salt Lake City, Utah 84147

Dear Mr. Lovell:

RE: Cause UIC-091 Disposal Well Application

- The above referenced application requests administrative approval for a water disposal well in accordance with Rule 502 and Rule 503(f) of the Oil and Gas Conservation General Rules. Pursuant to that application please provide technical information to justify the classification of this as a disposal operation rather than an enhanced recovery or pressure maintenance project.

A review of the application shows the proposed injection well to be located between two producing wells both within one-half mile and the proposed injection interval approximately equal to the producing intervals in the producing wells.

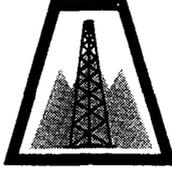
If you have any questions concerning this matter, please call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Gil Hunt'.

Gil Hunt
UIC Program Manager

mfp
0134U/27



WEXPRO COMPANY

79 SOUTH STATE STREET • P.O. BOX 11070 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2600

January 19, 1987

State of Utah
Department of Natural Resources
Division of Oil, Gas, and Mining
355 West North Temple
3 Triad Center
Suite 350
Salt Lake City, Utah 84180

Attention: Gil Hunt

Re: Cause UIC-091 Application

Dear Mr. Hunt:

Per our telephone conversation of January 15, 1987, concerning your inquiry as to the classification of the above application as a water disposal operation as opposed to an enhanced recovery or pressure maintenance project; please find enclosed Wexpro Company's calculations concerning reservoir voidage and proposed injection volumes.

As determined by Wexpro's calculations, the daily volume of produced fluids (oil, gas, water) is approximately 1300 reservoir barrels greater than the anticipated initial water injection volume (200 barrels per day).

Based on this information Wexpro asserts that pressure maintenance will not be supplied by the proposed water disposal project. In addition, Wexpro believes that since less than fifteen percent (15%) of the daily fluid production would be returned to the formation via water injection, very little, if any, enhanced recovery benefits would be realized.

Wexpro requests that you consider our application in view of the above information and approve the same as a water disposal project.

Should you have questions concerning this response, please contact me at 530-2653.

Sincerely,

Jeffrey L. Ingerson
Senior Reservoir Engineer

JLI:lh1
Attach.

Patterson Unit Area
January 14, 1987 Production

<u>Well</u>	<u>Oil</u>	<u>Gas</u>	<u>Water</u>
Unit 1	26	75	27
Unit 3	12	56	16
Unit 4	0	124	47
Well 1	41	74	71
Well 3	<u>47</u>	<u>524</u>	<u>37</u>
Ismay Total	126	853	198

Reservoir Voidage @ 1422 psig

$$\text{Oil} \quad 126 \text{ STBOPD} \quad * \quad \frac{1.25 \text{ RB}}{1.00 \text{ STBO}} \quad = \quad \underline{158 \text{ RBPD}}$$

$$\text{Water} \quad 198 \text{ STBOPD} \quad * \quad \frac{1.00 \text{ RB}}{1.00 \text{ STBW}} \quad = \quad \underline{198 \text{ RBPD}}$$

$$\text{Gas} \quad 853,000 \text{ SCFPD} \quad - \quad \frac{(447 \text{ SCF})}{\text{STBO}} \quad * \quad 126 \text{ STBOPD} \quad = \quad 795,678 \text{ SCFPD}$$

$$795,678 \text{ SCFPD} \quad * \quad \frac{0.00799 \text{ CF}}{\text{SCF}} \quad = \quad 6,365 \text{ CFPD}$$

$$6,365 \text{ CFPD} \quad * \quad \frac{1 \text{ RB}}{5.615 \text{ CF}} \quad = \quad \underline{1,134 \text{ RBPD}}$$

Voidage Total:

Oil	158 RBPD
Water	198 RBPD
<u>Gas</u>	<u>1,134 RBPD</u>
Total	1,490 RBPD

Reservoir Injection Volume

$$198 \text{ STBWPD} \quad * \quad \frac{1.00 \text{ RB}}{1.00 \text{ STBW}} \quad = \quad \underline{198 \text{ RBPD}}$$

Differential Volume

Voidage 1,490 RBPD

Injection 198 RBPD

△ Volume 1,292 RBPD Production over Injection

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

6. Lease Designation and Serial Number U-0145834
7. Indian Allottee or Tribe Name
8. Unit or Communitization Agreement
9. Well Name and Number Cowboy #1
10. API Well Number 43-037-30012 <i>POW</i>
11. Field and Pool, or Wildcat Cowboy

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT— for such proposals

1. Type of Well
 Oil Well Gas Well Other (specify)

2. Name of Operator
 WILLARD PEASE OIL AND GAS COMPANY

3. Address of Operator
 P.O. Box 1874, Grand Junction, Co. 81502

4. Telephone Number
 303-245-5917

5. Location of Well
 Footage : 1980' FSL and 660' FWL
 County : San Juan
 QQ, Sec. T., R., M. : Sec. 14, T39S., R22E, NWSW
 State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Conversion to Injection	<input checked="" type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Other _____	

Approximate Date Work Will Start December 10, 1990

SUBSEQUENT REPORT
(Submit Original Form Only)

<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Other _____	

Date of Work Completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.
 * Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

- Plan to clean out well, acid treat and return to production.
- May require small pit which will be dug on existing location and reclaimed immediately after job finished.

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

RECEIVED
JAN 03 1991
DIVISION OF
OIL, GAS & MINING

DATE: 1-7-91
BY: J.P. Matthews

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

Name & Signature Willard Pease, Jr. Willard Pease, Jr. Title President Date 12-31-90
 (State Use Only)

Well Data

WELL SEARCH

WELL DATA

WELL HISTORY

WELL ACTIVITY

WELL NAME	COWBOY #1	API NUMBER	4303730012	LEASE TYPE	1	LEASE NUMBER	U-0145834
OPERATOR NAME	BURKHALTER ENGINEERING INC	OPERATOR ACCOUNT	N6820	WELL TYPE	OW	WELL STATUS	S
FIELD NAME	COWBOY	FIELD NUMBER	340	ELEVATION	4789* KB	ALT ADDRESS	#
COUNTY	SAN JUAN	CONFIDENTIAL FLAG	<input type="checkbox"/>	Q. S. T. R. M.	NWSW 14 39.0 S 22.0 E S		
SURF LOCATION	1980 FSL 0660 FWL	CONFIDENTIAL DATE	<input type="checkbox"/>			TOTAL CUMULATIVE OIL	95381
COORDS SURF N	4139531.00	LA/PA DATE	<input type="checkbox"/>	MM/DD/YYYY		TOTAL CUMULATIVE GAS	5840
COORDS SURF E	635149.00	DIRECTIONAL	<input type="checkbox"/>			TOTAL CUMULATIVE WATER	2379
COORDS BHL N	<input type="checkbox"/>	INDIAN TRIBE	<input type="checkbox"/>	CB-METHANE FLAG	<input type="checkbox"/>	BOND NUMBER	<input type="checkbox"/>
COORDS BHL E	<input type="checkbox"/>	MULTI-LEG COUNT	<input type="checkbox"/>	SURF OWNER TYPE	<input type="checkbox"/>	BOND TYPE	<input type="checkbox"/>
FIELD TYPE FLAG	<input type="checkbox"/>	WILDCAT TAX FLAG	<input type="checkbox"/>	CA NUMBER	<input type="checkbox"/>		
COMMENTS	680715 WELL NM FR NW BLUFF #1.940909 OPER NM FR WILLARD PEASE O&G EFF 12/93: 000107 FR N1080 EFF 4-1-98:						

Create New Rec Save Cancel To History To Activity ↑ ↓

WELL SEARCH WELL DATA WELL HISTORY WELL ACTIVITY

WELL NAME	COWBOY #1	API NUMBER	4303730012	LEASE TYPE	1	LEASE NUMBER	U-0145834
OPERATOR NAME	PEASE OIL & GAS COMPANY	OPERATOR ACCOUNT	N1080	WELL TYPE	OW	WELL STATUS	S
FIELD NAME	COWBOY	FIELD NUMBER	340	ELEVATION	4789' KB	ALT ADDRESS	#
COUNTY	SAN JUAN	CONFIDENTIAL FLAG		C. S. T. R. M.	NWSW 14 39.0 S 22.0 E S		
SURF LOCATION	1980 FSL 0660 FWL	CONFIDENTIAL DATE				TOTAL CUMULATIVE OIL	95381
COORDS SURF N	4139531.00	LA/PA DATE		MM/DD/YYYY		TOTAL CUMULATIVE GAS	5840
COORDS SURF E	635149.00	DIRECTIONAL				TOTAL CUMULATIVE WATER	2379
COORDS BHL N		INDIAN TRIBE		CB-METHANE FLAG		BOND NUMBER	
COORDS BHL E		MULTI-LEG COUNT		SURF OWNER TYPE		BOND TYPE	
FIELD TYPE FLAG		WILDCAT TAX FLAG		C.A. NUMBER			
COMMENTS	680715 WELL NM FR NW BLUFF #1:940909 OPER NM FR WILLARD PEASE O&G EFF 12/93:						

Create New Rec Save Cancel To History To Activity ↑ ↓

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

6. Lease Designation and Serial Number

U-145834

7. Indian Allottee or Tribe Name

8. Unit or Communitization Agreement

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT— for such proposals

1. Type of Well

- Oil Well
- Gas Well
- Other (specify)

9. Well Name and Number

Cowboy 1

2. Name of Operator

Willard Pease Oil and Gas Co.

10. API Well Number

43-037-30012

3. Address of Operator

P.O. Box 1874, Grand Junction, CO 81502

4. Telephone Number

303-245-5917

11. Field and Pool, or Wildcat

Cowboy

5. Location of Well

Footage : 1980' FSL, 660' FWL
QQ, Sec. T., R., M. : T39S, R22E, Sec. 14: NWSW; SLB&M

County : San Juan
State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandonment *
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of Work Completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Annual Status Report of shut-in, temporarily abandoned, and suspended drilling wells.

Waiting for workover.

RECEIVED

FEB 16 1993

DIVISION OF
OIL, GAS & MINING

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

Name & Signature

Willard Pease

Title President

FEB 11 1993

(State Use Only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reenter a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.
U-0145834

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

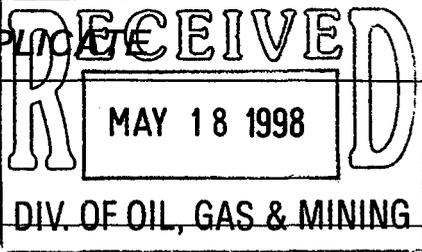
8. Well Name and No.
Cowboy #1

9. API Well No.
43-037-30012

10. Field and Pool, or Exploratory Area
Cowboy

11. County or Parish, State
San Juan County, Utah

SUBMIT IN TRIPLICATE



1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Burkhalter Engineering, Inc.

3. Address and Telephone No.

P.O. Box 60095 Grand Junction, CO 81506 (970) 245-5917

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FSL, 660' FWL, NWSW Sec.14 T39S R22E, SLB&M

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Change of Operator</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. 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.)*

Effective April 1, 1998, Burkhalter Engineering became the operator of the Cowboy #1 well. Burkhalter Engineering is responsible under the terms and conditions of the lease for operations conducted on the leased lands or portions thereof.

Bond coverage for this well will be provided by BLM Bond No. UT1097

Willard Pease Jr.
Pease Oil and Gas Company

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

Signed J. N. Burkhalter

Title Pres

Date May 4, 1998

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any: _____

EXHIBIT "A" TO SUNDRY NOTICE
U-2140A

<u>WELL NAME & NO.</u>	<u>API NO.</u>	<u>1/4 1/4</u>	<u>SEC.</u>	<u>TWP.</u>	<u>RNG.</u>
Federal 10-2	43-019-31210	NESW	10	20S	21E
Federal 11-1	43-019-30485	NWSW	11	20S	21E
Federal 11-2	43-019-30882	SESE	11	20S	21E
Federal 11-3	43-019-30884	SWSW	11	20S	21E
Federal 12-1	43-019-30881	SWSW	12	20S	21E
Federal 13-1	43-019-30348	SWSW	13	20S	21E
Federal 13-2	43-019-30673	SENW	13	20S	21E
Federal 13-3	43-019-30883	NWNE	13	20S	21E
Federal 13-4	43-019-30885	NWSE	13	20S	21E
Federal 14-1	43-019-30430	NWNW	14	20S	21E
Federal 14-1A	43-019-30436	NWNW	14	20S	21E
Federal 14-2	43-019-30487	NENE	14	20S	21E
Federal 15-1	43-019-30585	NESE	15	20S	21E
Federal 15-2	43-019-30636	NWNW	15	20S	21E
Federal 15-3	43-019-30637	NENE	15	20S	21E
Federal 15-4	43-019-30887	SWSW	15	20S	21E
Federal 1-10	43-019-30484	NWSW	10	20S	21E
Federal 22-1	43-019-30625	SENE	22	20S	21E

-END-

OPERATOR CHANGE WORKSHEET

1-KDR ✓	6-KAS ✓
2-GLH	7-SI
3-JRB ✓	8-FILE
4-CDV ✓	
5-KDR ✓	

Attach all documentation received by the Division regarding this change.

Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (Well Sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed, effective: 4-1-98

TO:(New Operator) BURKHALTER ENGINEERING INC. **FROM:**(Old Operator) PEASE OIL & GAS COMPANY
 Address: P.O. BOX 60095 Address: P.O. BOX 60219
GRAND JUNCTION, CO 81506 GRAND JUNCTION, CO 81506
 Phone: (970) 245-5070 Phone: (970) 245-5917
 Account No. N6820 Account No. N1080

WELL(S): Attach additional page(s) if needed.

Name: <u>COWBOY 1 (SOW)</u>	API: <u>43-037-30012</u>	Entity: <u>2530</u>	S <u>14</u>	T <u>39S</u>	R <u>22E</u>	Lease: <u>U-0145834</u>
Name: <u>COWBOY 4 (TA)</u>	API: <u>43-037-30037</u>	Entity: <u>2530</u>	S <u>14</u>	T <u>39S</u>	R <u>22E</u>	Lease: <u>U-0145834</u>
Name: <u>COWBOY 5 (SOW)</u>	API: <u>43-037-30062</u>	Entity: <u>2530</u>	S <u>14</u>	T <u>39S</u>	R <u>22E</u>	Lease: <u>U-0145834</u>
Name: <u>COWBOY 7 (SOW)</u>	API: <u>43-037-30325</u>	Entity: <u>2530</u>	S <u>23</u>	T <u>39S</u>	R <u>22E</u>	Lease: <u>U-0145834</u>
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- KDR 1. (R649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form) on 5.18.98.
- KDR 2. (R649-8-10) Sundry or other legal documentation has been received from the **NEW** operator on 5.18.98.
- N/A 3. The new company has been looked up in the **Department of Commerce, Division of Corporations Database** if the new operator above is not currently operating any wells in Utah. Is the operator registered with the State? **Yes/No** If yes, the company file number is _____. If no, Division letter was mailed to the new operator on _____.
- KDR 4. **Federal and Indian Lease Wells.** The BLM and/or the BIA has approved the operator change for all wells listed above involving Federal and/or Indian leases. (Rec'd 12.22.99)
- N/A 5. **Federal and Indian Units.** The BLM and/or the BIA has approved the operator change for the _____ unit and all wells listed above involving unit operations.
- N/A 6. **Federal and Indian Communitization Agreements ("CA").** The BLM and/or the BIA has approved the operator change for CA (Federal, Indian), CA No. _____, and all wells listed above involved in the CA.
- N/A 7. **Underground Injection Control ("UIC") Program.** The Division has approved UIC Form 5, Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project and/or for the water disposal well(s) listed above.

- KDR 8. Changes have been entered in the **Oil and Gas Information System** for each well listed on 1/7/00.
- N/A 9. Changes have been entered in **RBDMS** for each water/gas injection, water disposal well listed on _____.
- KDR 10. **Cardex** file has been updated for each well listed above on _____.
- KDR 11. Changes have been included on the monthly "Operator, Address, and Account Changes" memo on 1/7/00.
- KDR 12. An **Operator Change File** has been set up, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- KDR 1. (R649-8-7) **Entity assignments have been reviewed** for all wells listed above. Were entity changes made? If entity assignments were changed, attach copies of Form 6, Entity Action Form. NO
- KDR 2. Tax Commission, Trust Lands, and Forestry, Fire & State Lands have been **notified** through normal procedures of entity changes.

BOND VERIFICATION - (FEE LEASE WELLS)

- N/A 1. (R649-3-1) The **NEW** operator of any fee lease well(s) listed above has furnished a proper bond.
- 2. A **copy of this form** has been placed in the new and former operator's bond files on _____.
- 3. The **FORMER** operator has requested a release of liability from their bond as of today's date _____? If yes, Division response was made to this request by letter dated _____ (see bond file).

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- N/A 1. **E-mail** sent on _____ to _____ at **SITLA** for changes involving State leases. (Wait two weeks before changing, unless the Division hears otherwise.)
- 2. (R649-2-10) The **Former** operator of any Fee lease wells listed above has been contacted and informed by letter dated _____, of their responsibility to notify all interest owners of this change.

FILMING

- 1. All attachments to this form have been **microfilmed** on APR 13 2000.

FILING

- 1. **Copies** of all attachments pertaining to each individual well have been filed in each **well file**.
- 2. The **original of this form**, and the **original attachments** have been filed in the Operator file(s).

COMMENTS

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS

PEASE OIL & GAS COMPANY
PO BOX 60219
GRAND JUNCTION, CO 81506

UTAH ACCOUNT NUMBER: N1080

REPORT PERIOD (MONTH/YEAR): 7 / 1999

AMENDED REPORT (Highlight Changes)

WELL NAME			Producing Zone	Well Status	Well Type	Days Oper	Production Volumes		
API Number	Entity	Location					OIL (BBL)	GAS (MCF)	WATER (BBL)
4301930393	02490	20S 21E 11	DK-CM		OW		U-72600	apprv 12.16.99	eff 4.1.98
4301930392	02515	20S 21E 11	DKTA		OW		U-5675	apprv 12.16.99	" "
4303730012	02530	39S 22E 14	ISMY		OW				
4303730037	02530	39S 22E 14	ISMY		NA				
4303730062	02530	39S 22E 14	ISMY		OW				
4303730325	02530	39S 22E 23	ISMY		OW				
4301930586	08140	20S 21E 23	DKTA		GW		U-2139A	apprv 12.16.99	eff 4.1.98
4301930484	08141	20S 21E 10	DKTA		GW		U-2140A	apprv 12.16.99	eff 4.1.98
4301930485	08142	20S 21E 11	CDMTN		GW		U-2140A	apprv 12.16.99	eff 4.1.98
4301930882	08143	20S 21E 11	CDMTN		GW		U-2140A	apprv 12.16.99	eff 4.1.98
4301930884	08144	20S 21E 11	CDMTN		GW		U-2140A	apprv 12.16.99	eff 4.1.98
4301930881	08145	20S 21E 12	MRSN		GW		U-2140A	apprv 12.16.99	eff 4.1.98
4301930348	08146	20S 21E 13	MRSN		GW		U-2140A	apprv 12.16.99	eff 4.1.98

TOTALS

--	--	--

COMMENTS :

I hereby certify that this report is true and complete to the best of my knowledge.

Date: _____

Name and Signature: _____

Telephone Number: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reenter a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

U-0145834

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

8. Well Name and No.

Cowboy #1

2. Name of Operator

Burkhalter Engineering, Inc.

9. API Well No.

43-037-30012

3. Address and Telephone No.

P.O. Box 60095 Grand Junction, CO 81506 (970) 245-5917

10. Field and Pool, or Exploratory Area

Cowboy

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FSL, 660' FWL, NWSW Sec.14 T39S R22E, SLB&M

11. County or Parish, State

San Juan County, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other Change of Operator

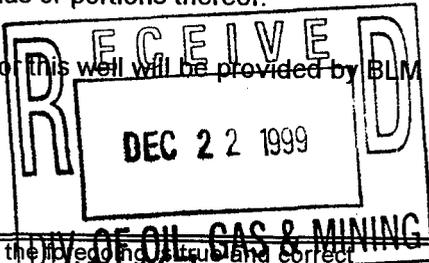
Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

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

13. 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.)*

Effective April 1, 1998, Burkhalter Engineering became the operator of the Cowboy #1 well. Burkhalter Engineering is responsible under the terms and conditions of the lease for operations conducted on the leased lands or portions thereof.

Bond coverage for this well will be provided by BLM Bond No. UT1097



Willard Pease Jr.
Willard Pease Jr.
Pease Oil and Gas Company

RECEIVED
MOAB FIELD OFFICE
1998 MAY -5 PM 12:37
DEPT OF THE INTERIOR
BUREAU OF LAND MGMT

14. I hereby certify that the information is true and correct

Signed *J.H. Burkhalter*

Title *PMES*

Date May 4, 1998

(This space for Federal or State office use)

Approved by *William H. ...*
Conditions of approval, if any:

Title **Assistant Field Manager,**
Division of Resources Date *12/16/99*

CONDITIONS OF APPROVAL ATTACHED

cc: UD06M 12/16/99

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instructions on Reverse Side

Burkhalter Engineering, Inc.
Well No. Cowboy 1
NWSW Sec. 14, T. 39 S., R. 22 E.
Lease UTU0145834
San Juan County, Utah

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.

Be advised that Burkhalter Engineering, Inc. is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by UT1097 (Principal - Burkhalter Engineering, Inc.) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

B. K. Seeley, Jr. doing business as Seeley Oil Company

3. Address and Telephone No.

P.O. Box 9015, Salt Lake City, Utah 84109 (801) 467-6419

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FSL, 660' FWL, NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 14. T39S-R22E, SLB & M

5. Lease Designation and Serial No.

U-0145834

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Cowboy #1

9. API Well No.

43-037-30012

10. Field and Pool, or Exploratory Area

Cowboy

11. County or Parish, State

San Juan County, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Change of Operator</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. 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.)*

WAS ^{SEPT 1998} Effective August 1, 1998, B.K. Seeley, Jr. d/b/a Seeley Oil Company became the operator of the Cowboy #1 well. B.K. Seeley, Jr. d/b/a Seeley Oil Company is responsible under the terms and conditions of the lease for operations conducted on the lands or portions thereof.

Band coverage for this well will be provided by BLM Bond No. 0692.

J. N. Burkhalter
D. N. Burkhalter
Burkhalter Engineering, Inc.

RECEIVED

DEC 22 1999

DIVISION OF OIL, GAS & MINING

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

Signed B.K. Seeley, Jr. Title _____ Date 9/22/98

(This space for Federal or State office use)

Approved by William H. Williams Title Assistant Field Manager,
Conditions of approval, if any: Division of Resources Date 12/16/99

CONDITIONS OF APPROVAL ATTACHED

cc: WDOGm, Burkhalter Engineering 12/16/99

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Seeley Oil Company.
Well No. Cowboy 1
NWSW Sec. 14, T. 39 S., R. 22 E.
Lease UTU0145834
San Juan County, Utah

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.

Be advised that Seeley Oil Company is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by UT0692 (Principal - Seeley Oil Company) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

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

RECEIVED

DEC 22 1999

FORM APPROVED
Budget Bureau No. 1004-0135

Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reenter a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

~~U-2140A~~ U02140A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

See Exhibit "A" Attached

9. API Well No.

See Exhibit "A" Attached

10. Field and Pool, or Exploratory Area

Cisco Dome

11. County or Parish, State

Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Burkhalter Engineering, Inc.

3. Address and Telephone No.

P.O. Box 60095 Grand Junction, CO 81506 (970) 245-5917

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

See Exhibit "A" Attached

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other Change of Operator
 Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

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

13. 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.)

Effective April 1, 1998, Burkhalter Engineering became the operator of the wells listed on Exhibit "A" attached. Burkhalter Engineering is responsible under the terms and conditions of the lease for operations conducted on the leased lands or portions thereof.

Bond coverage for this well will be provided by BLM Bond No. UT1097

Willard Pease Jr.
Willard Pease Jr.
Pease Oil and Gas Company

RECEIVED
BLM FIELD OFFICE
DEC 25 PM 12:36
BUREAU OF LAND MGMT

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

Signed J.M. Burkhalter

Title Pres

Date May 4, 1998

(This space for Federal or State office use)

Approved by William H.

Title Assistant Field Manager,
Division of Resources

Date 12/16/99

Conditions of approval, if any:

cc: U006m 12/16/99

CONDITIONAL APPROVAL

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

***See Instructions on Reverse Side**

EXHIBIT "A" TO SUNDRY NOTICE
U-2140A

<u>WELL NAME & NO.</u>	<u>API NO.</u>	<u>1/4 1/4</u>	<u>SEC.</u>	<u>TWP.</u>	<u>RNG.</u>
Federal 10-2	43-019-31210	NESW	10	20S	21E
Federal 11-1	43-019-30485	NWSW	11	20S	21E
Federal 11-2	43-019-30882	SESE	11	20S	21E
Federal 11-3	43-019-30884	SWSW	11	20S	21E
Federal 12-1	43-019-30881	SWSW	12	20S	21E
Federal 13-1	43-019-30348	SWSW	13	20S	21E
Federal 13-2	43-019-30673	SENW	13	20S	21E
Federal 13-3	43-019-30883	NWNE	13	20S	21E
Federal 13-4	43-019-30885	NWSE	13	20S	21E
Federal 14-1	43-019-30430	NWNW	14	20S	21E
Federal 14-1A	43-019-30436	NWNW	14	20S	21E
Federal 14-2	43-019-30487	NENE	14	20S	21E
Federal 15-1	43-019-30585	NESE	15	20S	21E
Federal 15-2	43-019-30636	NWNW	15	20S	21E
Federal 15-3	43-019-30637	NENE	15	20S	21E
Federal 15-4	43-019-30887	SWSW	15	20S	21E
Federal 1-10	43-019-30484	NWSW	10	20S	21E
Federal 22-1	43-019-30625	SENE	22	20S	21E

-END-

Burkhalter Engineering, Inc.
All Wells on Lease UTU02140A
(1-10, 10-2, 11-1, 11-2, 11-3, 12-1, 13-1, 13-2, 13-3, 13-4,
14-1, 14-1A, 14-2, 15-1, 15-2, 15-3, 15-4 and 22-1)
Sections 10, 11, 12, 13, 14, 15 and 22, T. 20 S., R. 21 E.
Grand County, Utah

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.

Be advised that Burkhalter Engineering, Inc. is considered to be the operator of the above wells and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for these wells is provided by UT1097 (Principal - Burkhalter Engineering, Inc.) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

1-KDR ✓	6-KAS ✓
7-CDW	8-FILE
3-JRB ✓	8-FILE
4-CDW ✓	
5-KDR ✓	

OPERATOR CHANGE WORKSHEET

Attach all documentation received by the Division regarding this change.

Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (Well Sold) Designation of Agent
- Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed, effective: 8-1-98

TO:(New Operator) SEELEY OIL COMPANY
 Address: P.O. BOX 9015
 SALT LAKE CITY, UT 84109
 B.K. SEELEY JR.
 Phone: (801)467-6419
 Account No. N2880

FROM:(Old Operator) BURKHALTER ENGINEERING INC.
 Address: P.O. BOX 60095
 GRAND JUNCTION, CO 81506
 Phone: (970)243-6060
 Account No. N6820

WELL(S): Attach additional page(s) if needed.

Name: <u>COWBOY 1 (SOW)</u>	API: <u>43-037-30012</u>	Entity: <u>2530</u>	S	<u>14</u>	T	<u>39SR</u>	<u>22E</u>	Lease: <u>U-0145834</u>
Name: <u>COWBOY 4 (TA)</u>	API: <u>43-037-30037</u>	Entity: <u>2530</u>	S	<u>14</u>	T	<u>39SR</u>	<u>22E</u>	Lease: <u>U-0145834</u>
Name: <u>COWBOY 5 (SOW)</u>	API: <u>43-037-30062</u>	Entity: <u>2530</u>	S	<u>14</u>	T	<u>39SR</u>	<u>22E</u>	Lease: <u>U-0145834</u>
Name: <u>COWBOY 7 (SOW)</u>	API: <u>43-037-30325</u>	Entity: <u>2530</u>	S	<u>23</u>	T	<u>39SR</u>	<u>22E</u>	Lease: <u>U-0145834</u>
Name: _____	API: _____	Entity: _____	S	_____	T	_____	_____	Lease: _____
Name: _____	API: _____	Entity: _____	S	_____	T	_____	_____	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- KDR 1. (R649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form) on 1.26.2000.
- KDR 2. (R649-8-10) Sundry or other legal documentation has been received from the **NEW** operator on 1.8.2000.
- N/A 3. The new company has been looked up in the **Department of Commerce, Division of Corporations Database** if the new operator above is not currently operating any wells in Utah. Is the operator registered with the State? **Yes/No** If yes, the company file number is _____. If no, Division letter was mailed to the new operator on _____.
- KDR 4. **Federal and Indian Lease Wells.** The BLM and/or the BIA has approved the operator change for all wells listed above involving Federal and/or Indian leases. (Rec'd 12.22.99)
- N/A 5. **Federal and Indian Units.** The BLM and/or the BIA has approved the operator change for the _____ unit and all wells listed above involving unit operations.
- I/A 6. **Federal and Indian Communitization Agreements ("CA").** The BLM and/or the BIA has approved the operator change for CA (Federal, Indian), CA No. _____, and all wells listed above involved in the CA.
- N/A 7. **Underground Injection Control ("UIC") Program.** The Division has approved UIC Form 5, Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project and/or for the water disposal well(s) listed above.

- NIA 8. Changes have been entered in the **Oil and Gas Information System** for each well listed on _____.
- NIA 9. Changes have been entered in **RBDMS** for each water/gas injection, water disposal well listed on _____.
- KDR 10. **Cardex** file has been updated for each well listed.
- _____ 11. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** on _____.
- KDR 12. An **Operator Change File** has been set up, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- KDR 1. (R649-8-7) **Entity assignments** have been reviewed for all wells listed above. Were entity changes made? Yes No If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- KDR 2. Tax Commission, Trust Lands, and Forestry, Fire & State Lands have been **notified** through normal procedures of entity changes.

BOND VERIFICATION - (FEE LEASE WELLS)

- NIA 1. (R649-3-1) The **NEW** operator of any fee lease well(s) listed above has furnished a proper bond.
- f 2. A **copy of this form** has been placed in the new and former operator's bond files on _____.
- f 3. The **FORMER** operator has requested a release of liability from their bond as of today's date _____? If yes, Division response was made to this request by letter dated _____ (see bond file).

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- NIA 1. **E-mail** sent on _____ to _____ at SITLA for changes involving State leases. (Wait two weeks before changing, unless the Division hears otherwise.)
- 1 2. (R649-2-10) The **Former** operator of any Fee lease wells listed above has been contacted and informed by letter dated _____, of their responsibility to notify all interest owners of this change.

FILMING

- V5 1. All attachments to this form have been **microfilmed** on APR. 13 2000.

FILING

- _____ 1. **Copies** of all attachments pertaining to each individual well have been filed in each **well file**.
- _____ 2. The **original of this form**, and the **original attachments** have been filed in the Operator file(s).

COMMENTS

000107 left message for Sue Burkhalter w/ Burkhalter Engineering (970-245-5070 hm) requesting paperwork.

000107 Called Seely oil company regarding paperwork needed. He will fax in ASAP. (Rec'd Fax 1-8-2000)

000110 left message for Burkhalter

OPERATOR CHANGE WORKSHEET

Routing:

1 KDR ✓	
2 GLH ✓	7-KAS ✓
3 RB RB	8-SI
4 CDW ✓	9-FILE
5 KDR ✓	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
- Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed, effective: 4-1-98

TO: (new operator) <u>BURKHALTER ENGINEERING INC</u> (address) <u>PO BOX 60095</u> <u>GRAND JUNCTION CO 81506</u> Phone: <u>(970)245-5917</u> Account no. <u>N6820</u>	FROM: (old operator) _____ (address) _____ _____ Phone: _____ Account no. _____	<u>PEASE OIL & GAS COMPANY</u> <u>PO BOX 60219</u> <u>GRAND JUNCTION CO 81506</u> Phone: <u>(970)245-5917</u> Account no. <u>N1080</u>
---	--	--

WELL(S) attach additional page if needed: * CALF CANYON UNIT

Name: **SEE ATTACHED**	API: <u>43-037-30013</u>	Entity: _____	S	T	R	Lease: _____
Name: _____	API: _____	Entity: _____	S	T	R	Lease: _____
Name: _____	API: _____	Entity: _____	S	T	R	Lease: _____
Name: _____	API: _____	Entity: _____	S	T	R	Lease: _____
Name: _____	API: _____	Entity: _____	S	T	R	Lease: _____
Name: _____	API: _____	Entity: _____	S	T	R	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- Y 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). *(Rec'd 5-18-98)*
- Y 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). *(Rec'd 5-18-98)*
- N/A 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) ____ If yes, show company file number: _____
- DR 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below. *(Rec'd 8.9.99) (Rec'd 12.22.99)*
- DR 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. *(11.19.99) Canyon U. (12.30.99)*
- DR 6. **Cardex** file has been updated for each well listed above.
- HA 7. Well **file labels** have been updated for each well listed above.
- DR 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. *(10.29.99) Canyon U. (12.30.99)*
- DR 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- WDR 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) (no) If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- WDR 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY)

- WDR/KC 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
- WDR/KC 2. A copy of this form has been placed in the new and former operator's bond files.
- WDR/KC 3. The FORMER operator has requested a release of liability from their bond (yes/no) _____, as of today's date _____. If yes, division response was made to this request by letter dated _____.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- WDR/KC 1. Copies of documents have been sent on _____ to _____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- WDR/KC 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated _____ 19 __, of their responsibility to notify all interest owners of this change.

FILMING

- ✓ 1. All attachments to this form have been microfilmed. Today's date: 6-1-02.

FILING

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form, and the original attachments are now being filed in the Operator Change file.

COMMENTS

990621 per Teresa Thompson w/ BLM, there hasn't been any paperwork filed on Cliff Canyon unit. No approval as of yet.

990809 rec'd Cliff Canyon unit approval.

990902 left message for Marie McEann (BLM) for Fed. wells

990902 Marie (BLM) called me back. Cliff Canyon unit wells have been approved, but not the federal ones yet. There is a problem, per Marie those approvals will take another week. She will send me a copy as soon as it is approved.

991119 called Marie McEann (BLM; 935-259-2135) to find out if Fed. wells apply. She told me not yet, there is a bonding problem. Only Cliff Canyon u wells have been approved.

Seeley Oil Company



DE BENNEVILLE K. SEELEY, JR.
OWNER

POST OFFICE BOX 9015
SALT LAKE CITY, UT 84109-0015
OFFICE (801) 467-6419
FAX (801) 278-9755
MOBILE (801) 541-2772

January 7, 2000

State of Utah
Division of Oil, Gas & Mining
1594 West North Temple, suite 1210
P.O. Box 145801 Salt Lake City, Utah 84114-5801

Dear Sirs:

Please be advised that effective August 1, 1998, B.K. Seeley Jr. dba Seeley Oil Company aquired Cowboy Field from Newt Burkhalter. Wells aquired were:

Cowboy #1 API # 43 - 037 - 30012
 located: Sec 14 - T.39S - R.22E San Juan County
Cowboy # 4 API # 43 - 037 - 30037
 located: Sec 14 - T.39S - R.22E SanJuan County
Cowboy #5 API # 43 - 037 - 30062
 located: Sec.14 - T.39S - R.22E SanJuan County
Cowboy #7 API # 43 - 037 - 30325
 located: Sec 23 - T.39E - R.22E San. Juan County

Also, effective January 1, 1999 we aquired Recapture Pocket Field from McRae & Henery Ltd. Wells aquired were:

Recapture Pocket #1 API # 43 - 037 - 30625
 located: Sec 3 - T.40S - R.22E San Juan County
Recapture Pocket #5 API # 43 - 037 - 30689
 located: Sec 10 - T.40S - R.22E San Juan County
Recapture Pocket #7 API # 43 - 037 - 30701
 located: Sec 2 - T.40S - R.22E San Juan County

Also, effective May 1, 1999 we acquired Cherokee Field from Dolar Oil Properties. Wells acquired were:

Cherokee Fed. #11-14 API # 43 - 037 - 31290
 located: Sec 14 - T.37S - R.23E San Juan County
Cherokee Fed. #22-14 API # 43-037 - 31367
 located: Sec 14 - T.37S - R.23E San Juan County
Cherokee Fed. #33-14 API # 43-037 - 31316
 located: Sec 14 - T.37S - R.23E San Juan County
Cherokee Fed. #43-14 API # 43 - 037 - 31364
 located: Sec 14 - T.37S - R.23E San Juan County

We currently operate all of the above-named wells.

Sincerely yours,
SEELEY OIL COMPANY

B.K. Seeley, Owner

Form 3160-5
June 1990

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COPY
FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
B. K. Seeley, Jr. doing business as Seeley Oil Company

3. Address and Telephone No.
P.O. Box 9015, Salt Lake City, Utah 84109 (801) 467-6419

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980' FSL, 660' FWL, NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 14, T39S-R22E, SLB & M

5. Lease Designation and Serial No.
U-0145834

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Cowboy #1

9. APT Well No.
43-037-30012

10. Field and Pool, or Exploratory Area
Cowboy

11. County or Parish, State
San Juan County, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Change of Operator
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. 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.)*

JNB
Effective ~~September~~ ^{August 1, 1998}, B.K. Seeley, Jr. d/b/a Seeley Oil Company became the operator of the Cowboy #1 well. B.K. Seeley, Jr. d/b/a Seeley Oil Company is responsible under the terms and conditions of the lease for operations conducted on the lands or portions thereof.

Bond coverage for this well will be provided by BLM Bond No. 0692.

J.N. Burkhalter

J. N. Burkhalter
Burkhalter Engineering, Inc.

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

Signed _____ Title _____ Date _____

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
 Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

SEELEY OIL COMPANY
P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

November 30, 2001

Mr. Brad Hill
Utah Division of Oil, Gas, and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

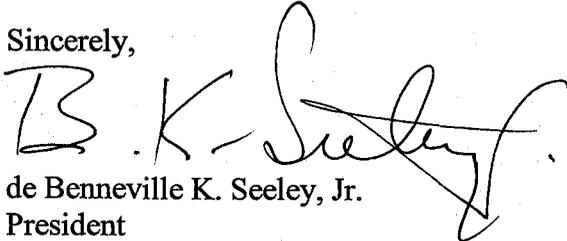
RE: Application for Injection Well – UIC Form 1
Seeley Oil Company Cowboy # 1
NW SW of Section 14, Township 39 South, Range 22 East
San Juan County, Utah

Dear Mr. Hill:

Seeley Oil Company is seeking approval to convert the above captioned well from an oil producing well to an injection well. UIC Form 1 is enclosed, with accompanying attachments.

Please process the application for approval. For questions or comments please contact myself, or David Friz with Stantec Consulting at 801-261-0090.

Sincerely,


de Benneville K. Seeley, Jr.
President
Seeley Oil Company

Enclosure: UIC Form 1

RECEIVED

DEC 03 2001

DIVISION OF
OIL, GAS AND MINING

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

UIC FORM 1

APPLICATION FOR INJECTION WELL

Name of Operator Seeley Oil Company	Utah Account Number N	Well Name and Number Cowboy #1
Address of Operator P.O. Box 9015 CITY Salt Lake City STATE UT ZIP 84109	Phone Number 801-467-6419	API Number 43-037-30012
Location of Well Footage: 1980' FSL, 660' FWL County: San Juan		Field or Unit Name Cowboy Field
QQ, Section, Township, Range: NW SW, Sec. 14, T39S, R22E State: Utah		Lease Designation and Number U - 145834

Is this application for expansion of an existing project? Yes No

Will the proposed well be used for:	Enhanced Recovery?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Disposal?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Storage?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Is this application for a new well to be drilled: Yes No

If this application is for an existing well, has a casing test been performed? Yes No
Date of test: _____

Proposed injection interval: from 5760 to 5800 *Isimay*
5922 5932 *Desert Creek*

Proposed maximum injection: rate 300 BWPD pressure 2000 psig

Proposed injection zone contains oil, gas and / or fresh water within 1/2 mile of the well.

List of attachments: Well location plat, electrical logs, well completion diagram, laboratory analyses of injection fluid and reservoir fluid, geological and drinking water information, affidavit.

ATTACH ADDITIONAL INFORMATION AS REQUIRED BY CURRENT UTAH OIL AND GAS CONSERVATION GENERAL RULES

i hereby certify that this report is true and complete to the best of my knowledge.

Name (Please Print) De Benneville K. Seeley, Jr.

Title President

Signature *B. K. Seeley, Jr.*

Date 11/30/01

RECEIVED

SEELEY OIL COMPANY

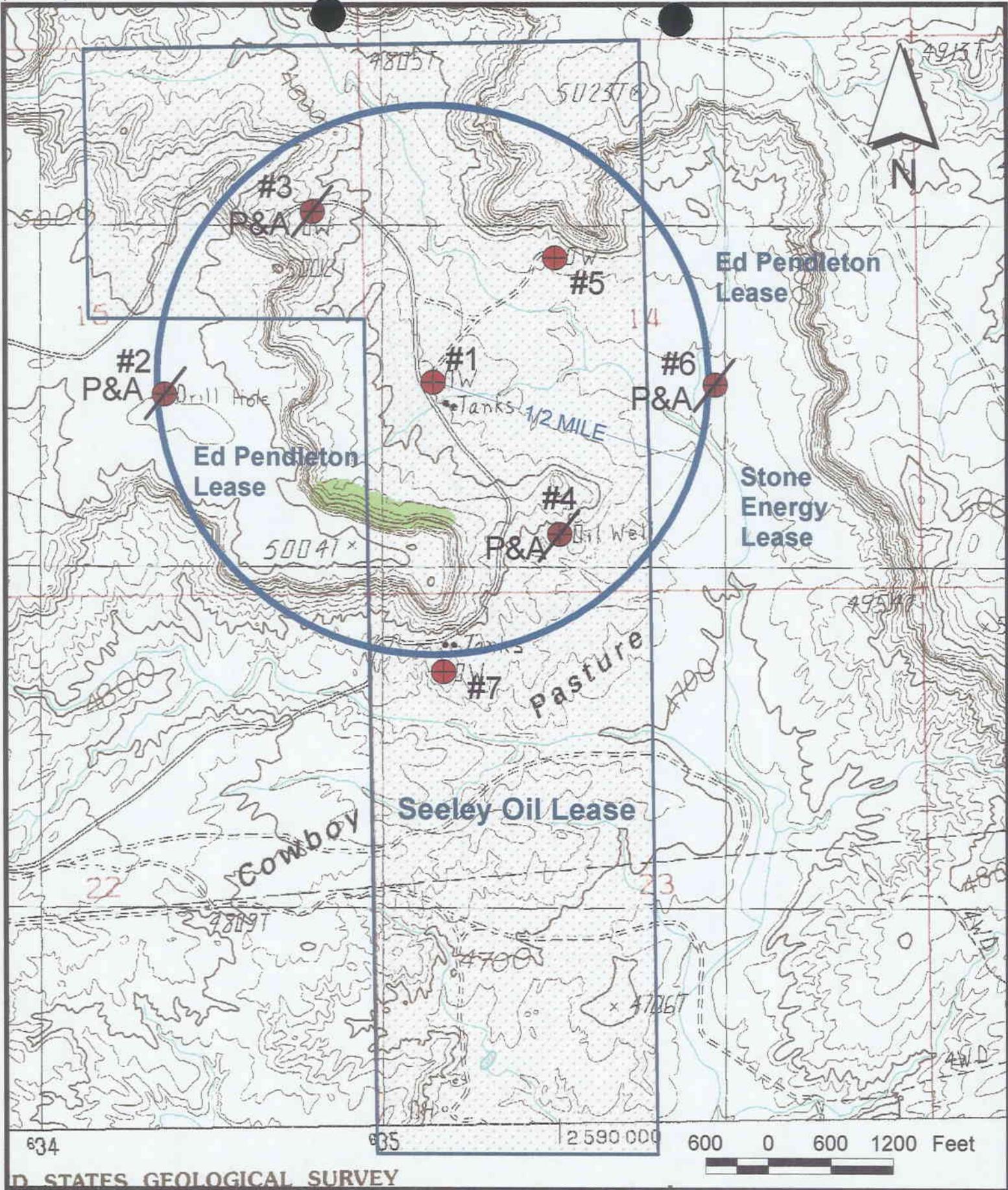
P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

Cowboy #1

Requirement R649-5-2-2.1

Plat showing the location of the well, all abandoned or active wells within a ½ mile radius of the proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a ½ mile radius of the proposed injection well.

Location plat is attached.



UNITED STATES GEOLOGICAL SURVEY

Cowboy Field Site Plat
 Sec. 14, T.39 S., R.22 E.
 San Juan County, Utah

Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109

SEELEY OIL COMPANY
P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

Cowboy #1

Requirement R649-5-2-2.2

Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper, and porosity.

Copies of logs through the proposed injection interval are attached. More complete logs that were run in the well are on file with the Division of Oil Gas and Mining.

SCHLUMBERGER

SIDEWALL
NEUTRON POROSITY LOG

COUNTY SAN JUAN FIELD or LOCATION WILDCAT WELL NORTHWEST BLUFF #1 COMPANY MOUNTAIN FUEL	COMPANY <u>MOUNTAIN FUEL SUPPLY COMPANY</u> WELL <u>NORTHWEST BLUFF #1</u> FIELD <u>WILDCAT</u> COUNTY <u>SAN JUAN</u> STATE <u>UTAH</u> Location: Sec. <u>14</u> Twp. <u>39S</u> Rge. <u>22E</u>	Other Services: DIL BHQ-GR																																																								
Permanent Datum: <u>GL</u> ; Elev.: <u>4777</u> Log Measured From <u>KB</u> ; <u>12</u> Ft. Above Perm. Datum Drilling Measured From <u>KB</u>		Elev.: <u>K.B. 4789</u> <u>D.F. 4788</u> <u>G.L. 4777</u>																																																								
<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Date</td><td>7-6-68</td></tr> <tr><td>Run No.</td><td>ONE</td></tr> <tr><td>Type Log</td><td>SNP</td></tr> <tr><td>Depth - Driller</td><td>6031</td></tr> <tr><td>Depth - Logger</td><td>6029</td></tr> <tr><td>Bottom logged interval</td><td>6028</td></tr> <tr><td>Top logged interval</td><td>4800</td></tr> <tr><td>Type fluid in hole</td><td>GEL</td></tr> <tr><td>Salinity, PPM Cl.</td><td>4200</td></tr> <tr><td>Density</td><td>9.6</td></tr> <tr><td>Level</td><td>FULL</td></tr> <tr><td>Max. rec. temp., deg F.</td><td>123</td></tr> <tr><td>Operating time</td><td>3 HOURS</td></tr> <tr><td>Recorded by</td><td>RUSEN</td></tr> <tr><td>Witnessed by</td><td>MR. GRAS & MR. ADAMS</td></tr> </table>			Date	7-6-68	Run No.	ONE	Type Log	SNP	Depth - Driller	6031	Depth - Logger	6029	Bottom logged interval	6028	Top logged interval	4800	Type fluid in hole	GEL	Salinity, PPM Cl.	4200	Density	9.6	Level	FULL	Max. rec. temp., deg F.	123	Operating time	3 HOURS	Recorded by	RUSEN	Witnessed by	MR. GRAS & MR. ADAMS																										
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">RUN</th> <th colspan="4">BORE-HOLE RECORD</th> <th colspan="2">CASING RECORD</th> </tr> <tr> <th>No.</th> <th>Dr</th> <th>From</th> <th>To</th> <th>Size</th> <th>Wgt.</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>7/8</td> <td>CSG</td> <td>TD</td> <td>10 3/4</td> <td>-</td> <td>SURF</td> <td>537</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			RUN		BORE-HOLE RECORD				CASING RECORD		No.	Dr	From	To	Size	Wgt.	From	To	1	7/8	CSG	TD	10 3/4	-	SURF	537																																
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No.	Dr	From	To	Size	Wgt.	From	To																																																			
1	7/8	CSG	TD	10 3/4	-	SURF	537																																																			

The well name, location and borehole reference data were furnished by the customer.

Reproduced By
Electrical Log Services, Inc.
MIRALDA, TEXAS 79701

REFERENCE K 3555K



7
COMPLETION RECORD

ACID. TRAC SHOT

IP

GOR

GR

TP

CP

REMARKS:

EQUIPMENT DATA									
Run No.	POP	PNH-A	PGH-A	PGS-	Source No.	SFT-116	SGH	Logging Line	Location
1	1450	21A	93A	-	44	19	174G	3860	FARM.
2				-					
3				-					

CALIBRATION DATA							
Run No.	Gamma Ray			Neutron - Before Log - ACPS		Neutron - After Log - ACPS	
	API Scale	Background CPS	Total CPS	Drawer In	Drawer Out	Drawer In	Drawer Out
1	200	80	480	430	260	430	260
2							
3							

LOGGING DATA									
Run No.	General		Speed Ft./Min.	TC	Gamma Ray		Neutron Selectors		
	From	To			API Scale	Matrix	Mud Corr. Setting on ^{235}Pu - NaClO_2	Temperature $^{\circ}\text{F}$	Porosity Scale
1	TD	4800	30	2	200	LIME	.02	120	30-10-0
2									
3									

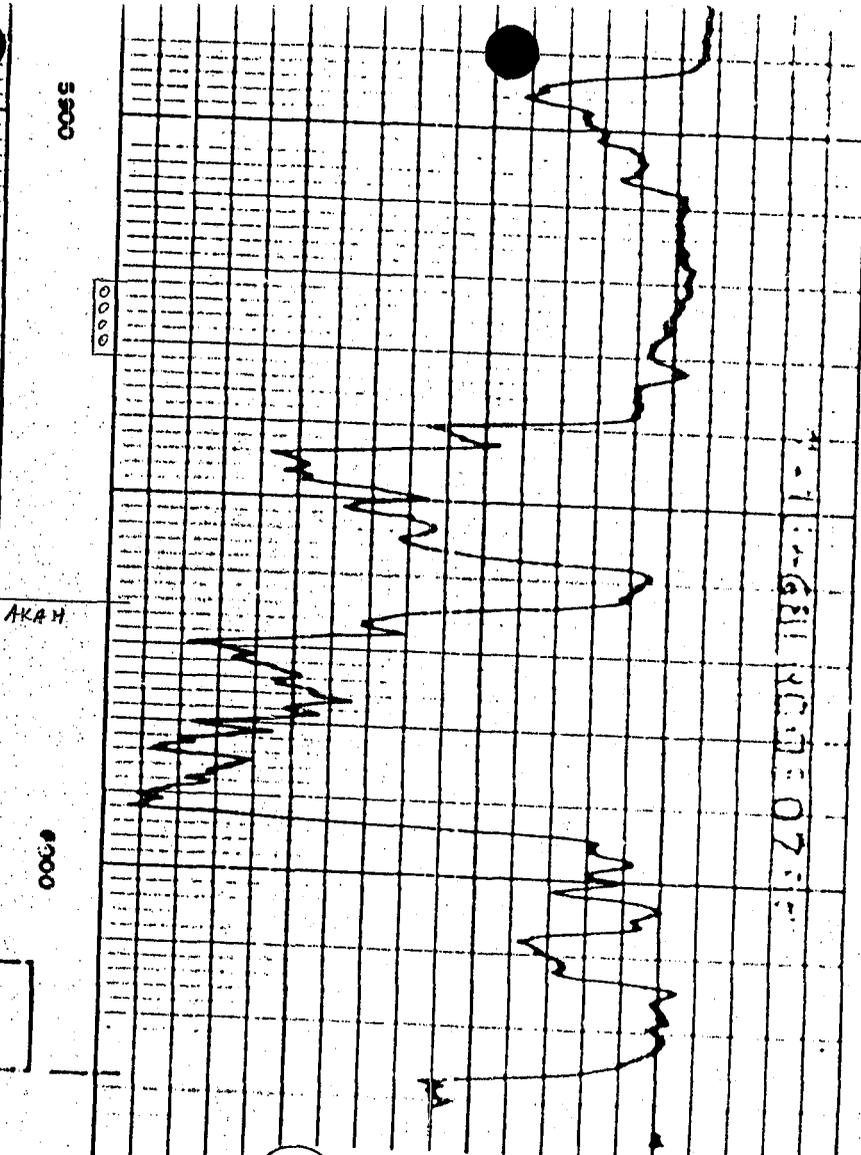
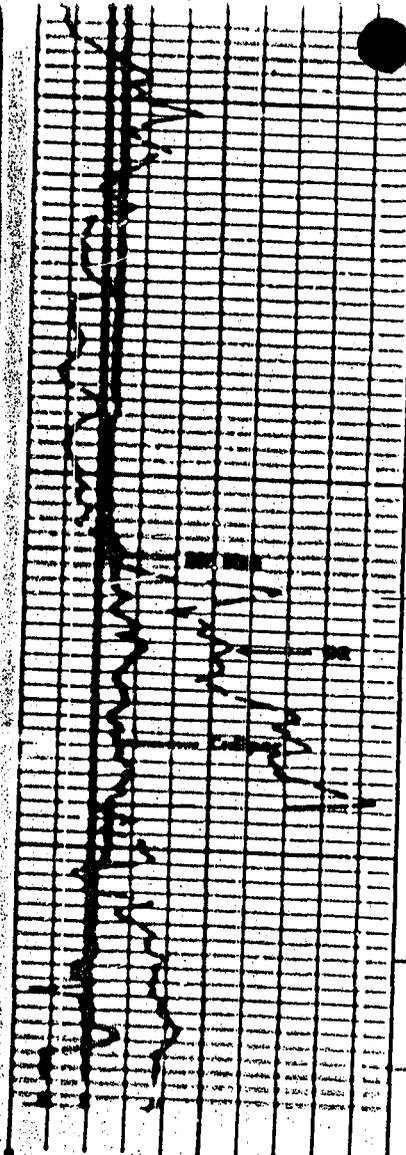
MUD DATA									
Run No.	Run	% Solids by Vol.	% Oil by Vol.	% Water by Vol.	Viscosity, Sec./Ct @	Solids, Av Sp Gr			
1									
2									
3									

REMARKS:

(E.L.S.) REPRODUCTION FOR RESALE, PROHIBITED

All interpretations are opinions based on information from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretation and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions set out in our current Price Schedule.

CALIPER HOLE DIAM. IN INCHES	DEPTH:	POROSITY (%)
---------------------------------	--------	--------------



COSS

0000

AKA H.

0000

1-1-68 11:00 AM 07:00 PM

(E.S.) REPRODUCTION FOR RESALE PROHIBITED

0	200
200	400

GAMMA RAY
API UNITS

8	9	10	11	12	13	14	15	16
7	8	9	10	11	12	13	14	15

CALIPER
HOLE DIAM. IN INCHES

DEPTH

LIMESTONE POROSITY

30	20	10	0	10
----	----	----	---	----

POROSITY (%)

COMPANY MOUNTAIN FUEL SUPPLY COMPANY
COWBOY

WELL NORTHWEST BLUFF #1

FIELD WILDCAT

COUNTY SAN JUAN STATE UTAH

SCHL FR 6028
SCHL TD 6029
DRLR TD 6031
Elev: KB 4789
DF 4788
GA 4777

SCHLUMBERGER

DUAL INDUCTION - LATEROLOG

COUNTY SAN JUAN
FIELD or LOCATION WILDCAT
WELL NORTHWEST BLUFF #1

COMPANY MT. FUEL SUPPLY CO

COMPANY MOUNTAIN FUEL SUPPLY COMPANY
WELL Cow Boy
NORTHWEST BLUFF #1
FIELD WILDCAT
COUNTY SAN JUAN STATE UTAH
LOCATION
Sec. 14 Twp. 39S Rge. 22E
Other Services:
BHC-GR
SNP

Permanent Datum: GL
Log Measured From KB Elev. 4777
Drilling Measured From KB 12 ft. Above Perm. Datum
Elev. KB. 4789
D.F. 4788
G.L. 4777

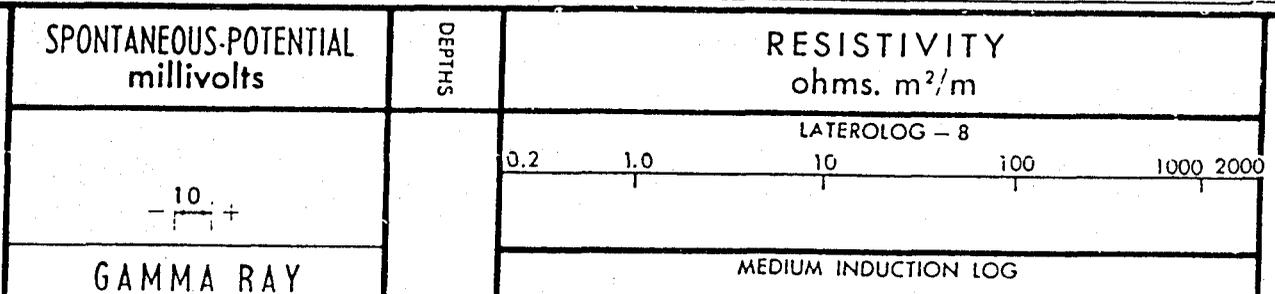
Date	7-6-68	Run No.	ONE
Depth—Driller	6031	Depth—Logger	6030
Bim. Log Interval	6026	Top Log Interval	537
Casing—Driller	10 3/4	Casing—Logger	537
Bit Size	7 3/4	Type Fluid in Hole	GEL
Dens.	9.6	Visc.	47
pH	12.0	Fluid Loss	5.0 ml
Source of Sample	MUD TANK	R _m @ Meas. Temp.	.75 @ 80 °F
R _m @ Meas. Temp.	.57 @ 85 °F	R _{ml} @ Meas. Temp.	.39 @ 123 °F
R _{mc} @ Meas. Temp.	.50 @ 123 °F	Source: R _m	M
R _m @ BHT	.48 @ 120 °F	R _{ml} @ BHT	"
R _{mc} @ BHT	"	Time Since Circ.	3 HOURS
Max. Rec. Temp.	123 °F	Equip. Location	3860 FARI.
Recorded by	RUSEN	Witnessed by	MR. GIKAS & MR. ADAMS

The well name, location and borehole reference data were furnished by the customer.

REMARKS		Type Log	Depth	Scale Changes Scale Up Hole	Scale Down Hole
Changes in Mud Type or Additional Samples					
Date	Sample No.				
Depth—Driller					
Type Fluid in Hole					
Dens.	Visc.				
pH	Fluid Loss				
Source of Sample					
R _m @ Meas. Temp.	"	Run No.	Tool Type	Equipment Data Tool Position	Other
R _{ml} @ Meas. Temp.	"				
R _{mc} @ Meas. Temp.	"				
Source: R _m R _{mc}					
R _m @ BHT	"				
R _{ml} @ BHT	"				
R _{mc} @ BHT	"				

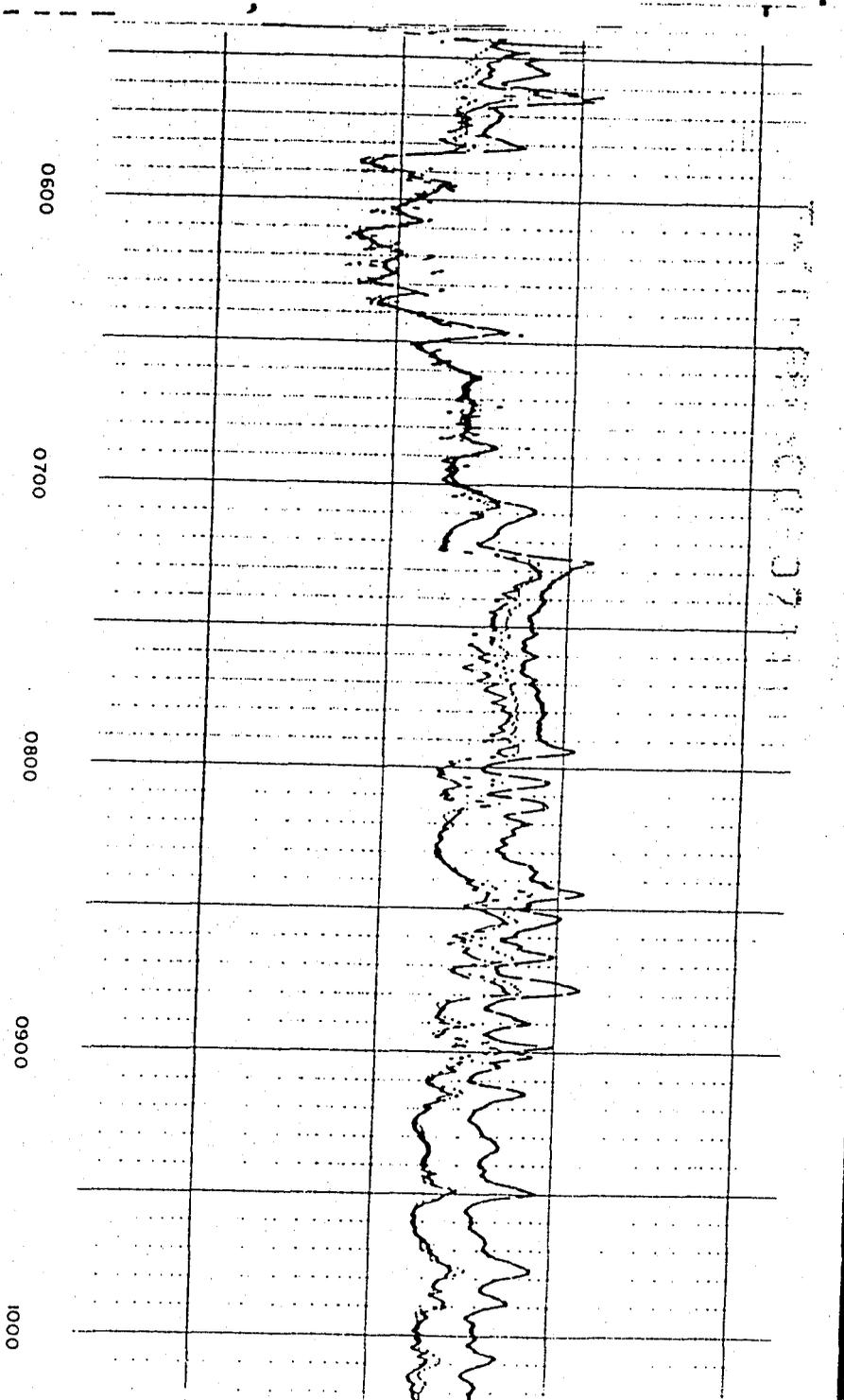
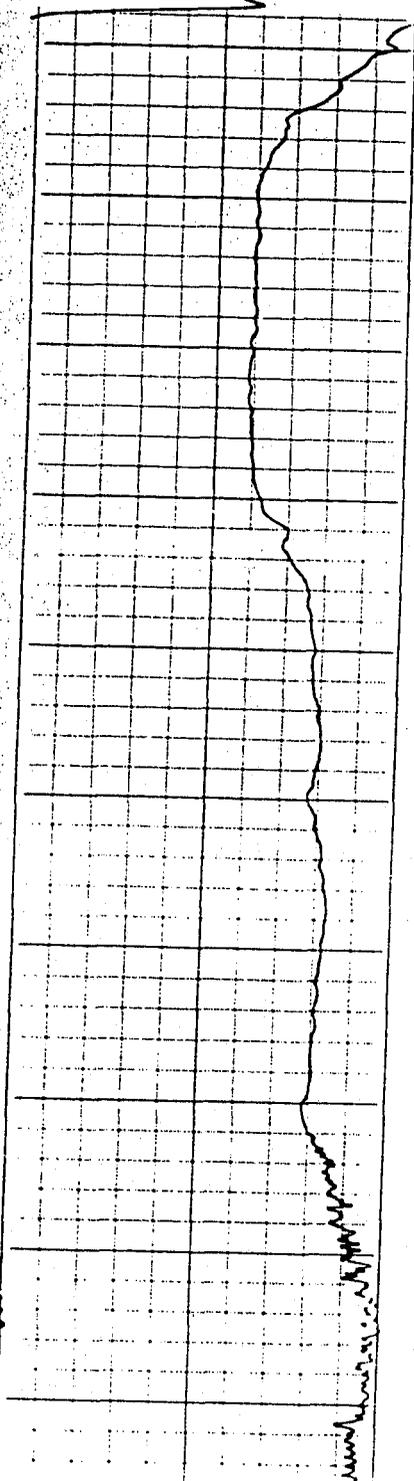
C.D.: USED S.O.: 1 1/2"
Equip. Used Cart. No. 44B
Panel No. 90A
Sonde No. X3B
IAP No. 251D
SBR 4

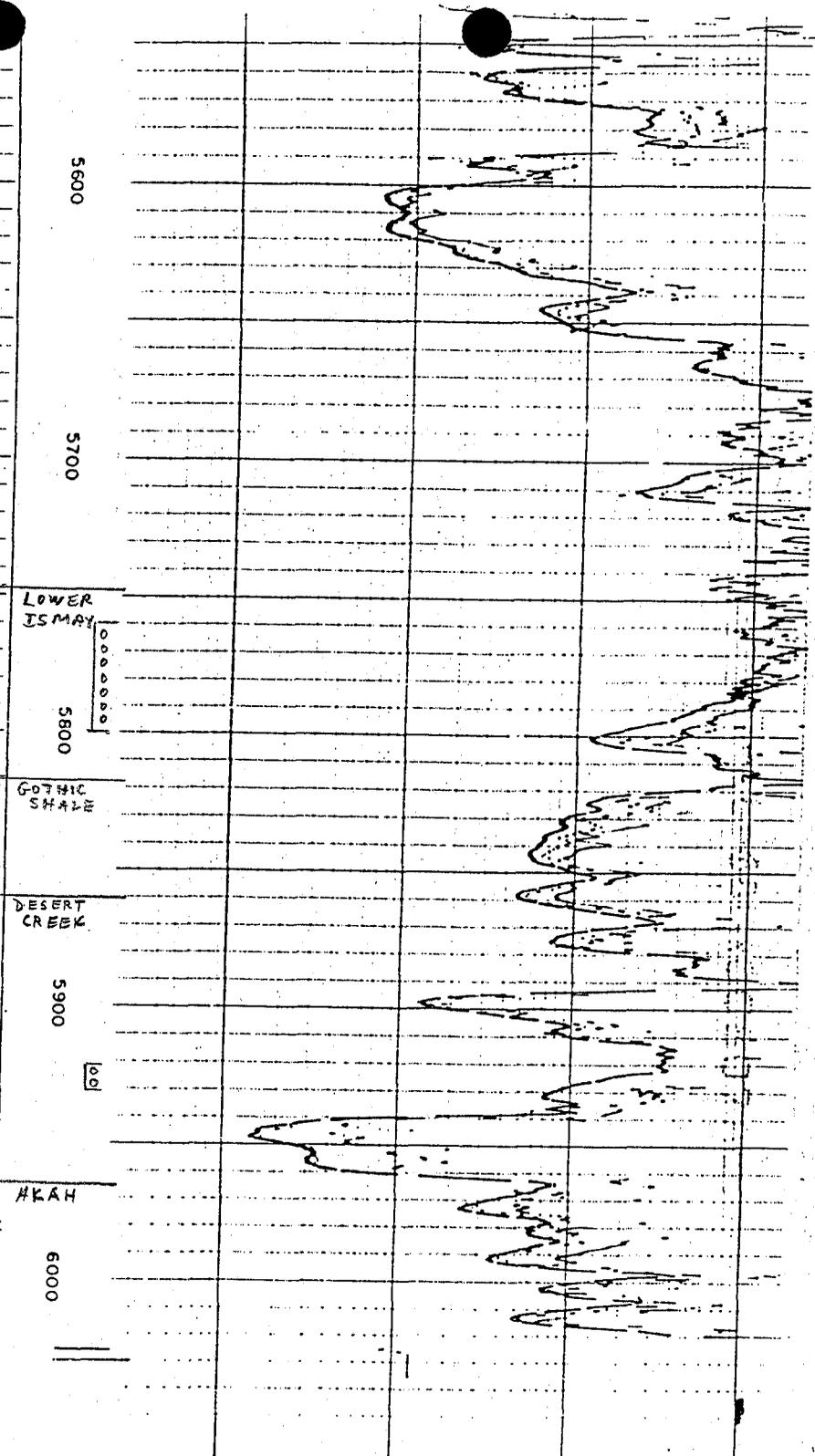
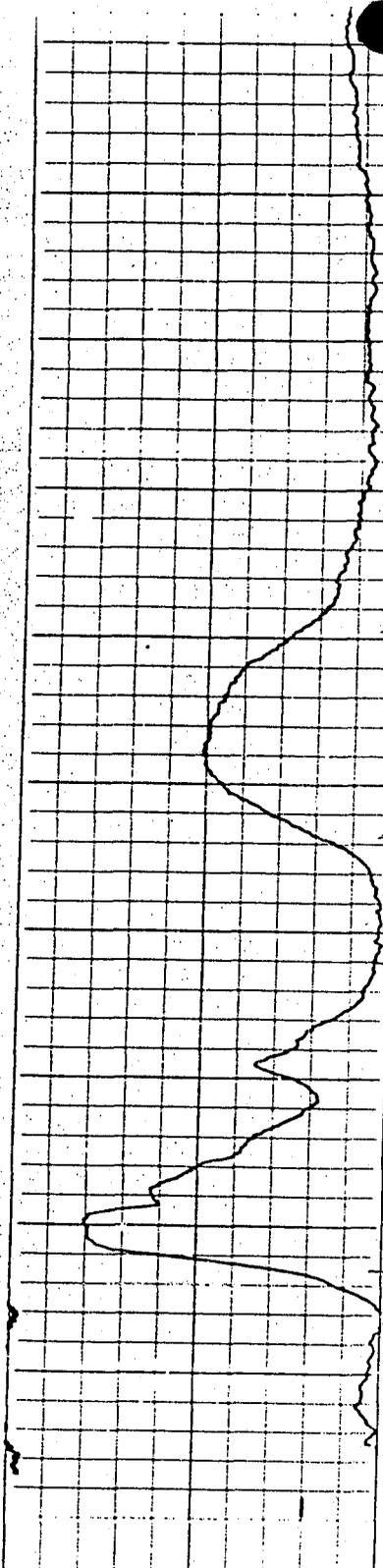
Check one, filling in blanks where applicable:
 Surface determined sonde errors used for ILM and ILD.
 ILM and ILD sonde errors corrected for _____ inch
 borehole signal at R_m = _____
 ILM and ILD zeros set in hole at depth of _____ feet.



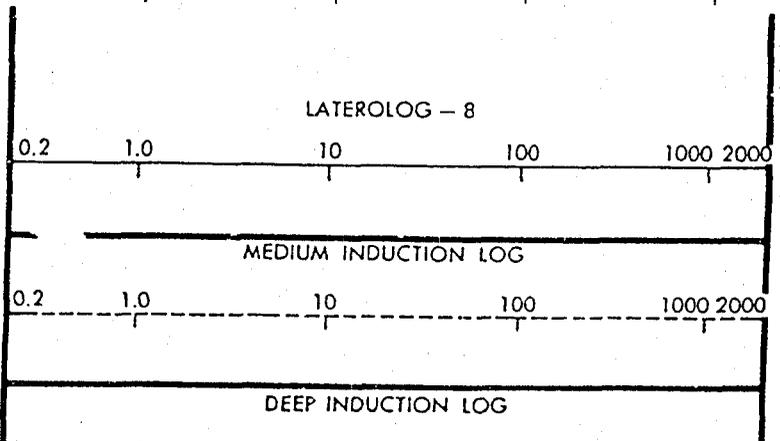
Borehole signal at Km
 ILM and ILD zeros set at depth of feet.

SPONTANEOUS-POTENTIAL millivolts	DEPTH	RESISTIVITY ohms. m ² /m	
		LATEROLOG - 8 0.2 1.0 10 100 1000 2000	
GAMMA RAY API units		MEDIUM INDUCTION LOG 0.2 1.0 10 100 1000 2000	
0		DEEP INDUCTION LOG 0.2 1.0 10 100 1000 2000	





GAMMA RAY
API units



SEELEY OIL COMPANY
P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

Cowboy #1

Requirement R649-5-2-2.5

A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.

The attached diagram presents the casing currently installed in the well. Seeley Oil will pressure test the well to insure casing integrity.

SEELEY OIL COMPANY

P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

Cowboy #1

Requirement R649-5-2-2.6

A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.

The fluid to be injected into Cowboy#1 will be a composite of produced waters gathered from oil wells completed in the Desert Creek and Ismay zones in the surrounding vicinity.

It is estimated that up to 300 barrels of water will be injected daily.

SEELEY OIL COMPANY
P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

Cowboy #1

Requirement R649-5-2-2.7

Standard laboratory analyses of (1) the fluid to be injected, (2) the fluid in the formation into which the fluid is being injected, and (3) the compatibility of the fluids.

Copies of laboratory analyses from the Lower Ismay zone from the Cowboy Field, and the Desert Creek zone from the Recapture Field are attached. The water analyses are similar suggesting the fluids will be compatible.

FROM : H & M Precision Products Inc.

PHONE NO. : 505 326 4949

Nov. 05 2001 03:36PM P3

Seeley Oil & Gas

County: San Juan
 State: Utah
 Sampled At: Wellhead
 Sample Date: 11/05/01

Sampled By: Albert Rich
 Location: Recapture #5 & #7
 Formation: Desert Creek
 Depth: 0

H & M Precision Water Analysis Report

	mg/L	meq/L		mg/L	meq/L
Sum +			Sum -		
Potassium	0.0	0.00	Sulfate	1,040.0	21.65
Sodium	5,682.7	242.83	Chloride	13,300.0	375.14
Calcium	1,023.1	80.99	Carbonate	0.0	0.00
Magnesium	850.0	69.92	Bicarbonate	80.0	1.31
Iron	38.7	2.06	Hydroxide	0.0	0.00
Barium	5.0	0.07	.	0.0	0.00
Strontium	0.0	0.00	.	0.0	0.00
CATIONS	8,099.5	365.89	ANIONS	14,420.0	398.10

Analysis Balanced

Total Dissolved Solids @180C

22,520 mg/L

Sample Temperature, F

70 F

Sample pH, standard units

7.2 Units

Dissolved Oxygen

0.0 ppm

Carbon Dioxide

0.0 mg/L

Total Sulfide, (TS)

0.0 mg/L

Sulfide Ion, (S)

0 mg/L

Dissolved Hydrogen Sulfide, (TS-S)

0 mg/L

Specific Gravity

1.0165

Resistivity, measured

0 ohm/m³

Ionic strength

0.484

Sulfate Reducing Bacteria

nd

Aerobic Bacteria

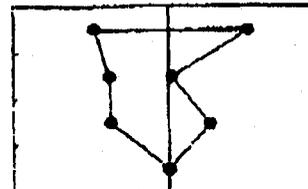
nd

CACO3				CASO4				
Temp F	Stiff Davis Index	A Index	Temp F	SOLUBILITY Actual	SOLUBILITY Calculated	S Index	A Index	
32	-0.83	-138	50	21.65	40.55	-18.90	-450	
60	-0.49	-90	68	21.65	40.82	-19.18	-457	
68	-0.33	-50	68	21.65	41.08	-19.42	-463	
77	-0.24	-34	68	21.65	41.08	-19.42	-463	
86	-0.19	-18	104	21.65	41.24	-19.59	-467	
104	0.09	8	122	21.65	41.32	-19.67	-469	
122	0.35	25	140	21.65	40.48	-18.81	-448	
140	0.65	36	158	21.65	39.69	-17.93	-427	
156	0.95	41	176	21.65	38.70	-17.05	-408	
176	1.30	43						

BASO4 SCALE POSSIBLE

YES

Water Analysis Pattern



NOTE: Stiff Davis Index

- Indicates undersaturation. Scale formation negative.
- 0 indicates the water is at saturation point. Scale unlikely.
- + indicates supersaturation. A positive scaling condition exists.

NOTE: Sillman Method Calcium Sulfate 'S' Index

- Indicates undersaturation. Scale formation negative.
- 0 indicates the water is at saturation point. Scale unlikely.
- + indicates supersaturation. A positive scaling condition exists.

NOTE: A Index; worst possible case. Assumes 100% precipitation.

- Units = pounds of scale produced / 1000 bbls. of water.
- A Index =< 0 Scale formation negative.
- A Index > 0 Scale formation positive.

Approved: Albert Rich
 11/05/2001

v4.01

FROM : H & M Precision Products Inc.

PHONE NO. : 505 326 4949

Nov. 05 2001 03:53PM P1

Seeley Oil & Gas

County: San Juan
 State: Utah
 Sampled At: Treater #1
 Sample Date: 11/05/01

Sampled By: Albert Rich
 Location: Cowboy Treater #1
 Formation: Lower Kanab
 Depth: 0

H & M Precision Water Analysis Report

Sum +	mg/L	meq/L	Sum -	mg/L	meq/L
Potassium	0.0	0.00	Sulfate	1,400.0	29.15
Sodium	16,622.1	810.02	Chloride	36,600.0	1,029.53
Calcium	2,981.4	142.78	Carbonate	0.0	0.00
Magnesium	1,200.0	98.72	Bicarbonate	170.0	2.79
Iron	121.3	6.52	Hydroxide	0.0	0.00
Barium	80.0	0.87	-	0.0	0.00
Strontium	0.0	0.00	-	0.0	0.00
CATIONS	22,864.8	1,088.91	ANIONS	38,070.0	1,081.47

Analysis
Balanced

Total Dissolved Solids @180C	60,935 mg/L
Sample Temperature, F	70 F
Sample pH, standard units	6.2 Units
Dissolved Oxygen	0.0 ppm
Carbon Dioxide	0.0 mg/L
Total Sulfide, (TS)	0.0 mg/L
Sulfide Ion, (S)	0 mg/L
Dissolved Hydrogen Sulfide, (TS-S)	0 mg/L
Specific Gravity	1.0426
Resistivity, measured	0 ohm/m ³
Ionic strength	1.197
Sulfate Reducing Bacteria	nd
Aerobic Bacteria	nd

CaCO ₃			CaSO ₄				
Temp F	Stiff Davis Index	A Index	Temp F	SOLUBILITY Actual	SOLUBILITY Calculated	S Index	A Index
32	-1.30	-1207	50	29.15	49.69	-20.74	-494
50	-1.16	-932	68	29.15	50.07	-20.92	-499
68	-1.04	-735	86	29.15	50.25	-21.10	-503
77	-0.95	-609	104	29.15	50.15	-21.00	-501
86	-0.84	-478	122	29.15	49.78	-20.83	-492
104	-0.64	-282	140	29.15	48.99	-19.84	-473
122	-0.37	-120	158	29.15	48.20	-19.05	-454
140	-0.02	-4	176	29.15	47.40	-18.25	-436
158	0.32	50					
176	0.67	76					

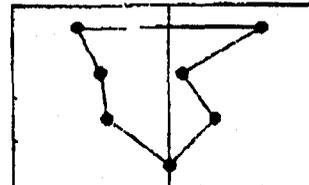
BASO4 SCALE POSSIBLE YES

NOTE: Stiff Davis Index
 - Indicates undersaturation. Scale formation negative.
 0 indicates the water is at saturation point. Scale unlikely.
 + indicates supersaturation. A positive scaling condition exists.

NOTE: Skellman Method Calcium Sulfate 'S' Index
 - Indicates undersaturation. Scale formation negative.
 0 indicates the water is at saturation point. Scale unlikely.
 + indicates supersaturation. A positive scaling condition exists.

NOTE: A Index; worst possible case. Assumes 100% precipitation.
 - Units = pounds of scale produced / 1000 bbls. of water.
 - A Index =< 0 Scale formation negative.
 - A Index > 0 Scale formation positive.

Water Analysis Pattern



Approved: Albert Rich
 11/05/2001 v4.01

SEELEY OIL COMPANY
P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

Cowboy #1

Requirement R649-5-2-2.8

Proposed average and maximum injection pressures.

A maximum of 300 barrels of water per day is proposed. Well is currently on vacuum.

SEELEY OIL COMPANY

P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

Cowboy #1

Requirement R649-5-2-2.9

Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

The main aquifer for drinking water or other water uses in the region is the Navajo Sandstone. However, in the vicinity of the proposed injection well, there is little groundwater development. The Navajo Sandstone occurs at approximately 721 feet below the ground surface in the proposed injection well (Cowboy #1).

The proposed injection zones are the Lower Ismay (5,630 feet below the ground surface) and the Desert Creek (5,864 feet below the ground surface). The Lower Ismay is a fossiliferous limestone with intercrystalline and vuggy porosity. The Desert Creek is a crystalline dolomite with vuggy porosity. Both zones produced oil from algal buildups with limited lateral extent.

Between the Navajo Sandstone and the Lower Ismay zone are several shale and evaporite units including the Chinle (consisting of shale, siltstone and minor sandstone, approximately 700 feet thick, occurring between 1,746 and 2476 feet below the ground surface); the Moenkopi (consisting of shale and siltstone, approximately 300 feet thick, occurring between 2,534 and 2,830 feet below the ground surface); and the Cutler evaporites (approximately 800 feet thick and occurring between 3,611 and 4,800 feet below the ground surface). Based on the lithology of these formations, the rocks would be too impermeable to transmit fluids. The Navajo Sandstone is separated by more than 4,000 feet of rock from the proposed injection zones, and it is doubtful that any fractures that might be induced in the Ismay or Desert Creek would propagate up to the Navajo.

SEELEY OIL COMPANY

P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

Cowboy #1

Requirement R649-5-2-2.10

Appropriate geological data on the injection interval and confining beds, and nearby Underground Sources of Drinking Water, including the geologic name, lithologic description, thickness, depth, water quality, and lateral extent; also information relative to geologic structure near the proposed well which may effect the conveyance and/or storage of the injected fluids.

The main aquifer for drinking water or other water uses in the region is the Navajo Sandstone. However, in the vicinity of the proposed injection well, there is little groundwater development. The Navajo Sandstone occurs at approximately 721 feet below the ground surface in the proposed injection well (Cowboy #1).

A review of information available at the Utah Division of Water Rights indicated that there are no points of diversion for underground water within a one mile radius of the proposed injection well. There are four underground points of diversion within a four mile radius of the proposed injection well. A copy of the Water Right Point of Diversion Plots and water rights are attached.

The nearest water well is a stock watering well located approximately 6,500 feet southwest of the proposed injection well. State of Utah records list the depth as unknown. The nearest water well with depth and production information is located approximately 3-1/4 miles to the west of the proposed injection well and was drilled to 820 feet. The driller's log (attached) indicates a water sand to be present from 655-820 feet, which suggests the well may be completed in the Navajo Sandstone.

The proposed injection zones are the Lower Ismay (5,630 feet below the ground surface) and the Desert Creek (5,864 feet below the ground surface). The Lower Ismay is a fossiliferous limestone with intercrystalline and vuggy porosity. The Desert Creek is a crystalline dolomite with vuggy porosity. Both zones produced oil from algal buildups with limited lateral extent.

Between the Navajo Sandstone and the Lower Ismay zone are several shale and evaporite units including the Chinle (consisting of shale, siltstone and minor sandstone,

SEELEY OIL COMPANY

P.O. Box 9015

Salt Lake City, Utah 84109

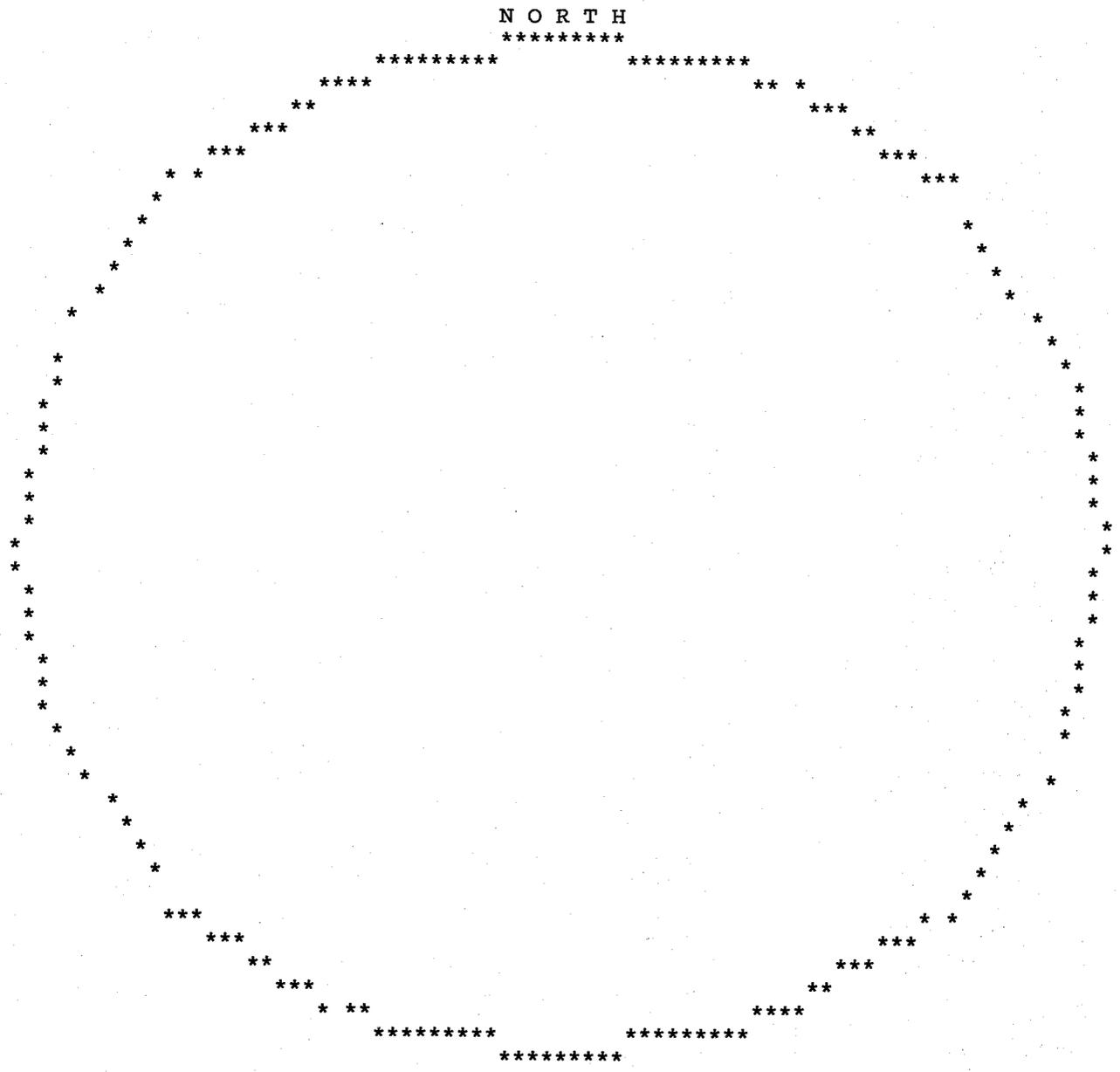
801-467-6419

approximately 700 feet thick, occurring between 1,746 and 2476 feet below the ground surface); the Moenkopi (consisting of shale and siltstone, approximately 300 feet thick, occurring between 2,534 and 2,830 feet below the ground surface); and the Cutler evaporites (approximately 800 feet thick and occurring between 3,611 and 4,800 feet below the ground surface). Based on the lithology of these formations, the rocks would be too impermeable to transmit fluids. The Navajo Sandstone is separated by more than 4,000 feet of rock from the proposed injection zones, and it is doubtful that any fractures that might be induced in the Ismay or Desert Creek would propagate up to the Navajo.

UTAH DIVISION OF WATER RIGHTS
WATER RIGHT POINT OF DIVERSION PLOT CREATED WED, NOV 21,
PLOT SHOWS LOCATION OF 0 POINTS OF DIVER

PLOT OF AN AREA WITH A RADIUS OF 5280 FEET FR
N 1980 FEET, E 660 FEET OF THE SW CORNER,
SECTION 14 TOWNSHIP 39S RANGE 22E SL BASE AN

PLOT SCALE IS APPROXIMATELY 1 INCH = 2000 FEET





From To
0 63 CEMENT

WELL TESTS:

Date	Test Method	Yield (CFS)	Drawdown (ft)	Time Pumped (hrs)
10/22/1977	AIR BLOW	.446	820	8


[State Online Services](#)
[Agency List](#)

UTAH DIVISION OF WATER RIGHTS

WRPRINT Water Right Information Listing

Version: 2001.09.26.00 Rundate: 11/26/2001 03:34 PM

Water Right 09-809

[WRPRINT] ***WR#: 09 809 has been PRINTED!!

(WARNING: Water Rights makes NO claims as to the accuracy of this data.) RUN DATE: 11/26/2001 Page

WRNUM: 09-809 APPLICATION/CLAIM NO.: A48828 CERT. NO.:

OWNERSHIP*****

NAME: Two Swipe Cattle OWNER MISC: A Corporation
ADDR: 1420 North Blue Mtn Rd (9-1)
CITY: Blanding STATE: UT ZIP: 84511 INTEREST: 100%
LAND OWNED BY APPLICANT? Yes

DATES, ETC.*****

FILING: 05/10/1977	PRIORITY: 05/10/1977	ADV BEGAN: / /	ADV ENDED: / /	NEWSPAPER:
PROTST END: / /	PROTESTED: []	APPR/REJ: []	APPR/REJ: 09/29/1977	PROOF DUE: / /
ELEC/PROOF: [Election]	ELEC/PROOF: 01/21/1980	CERT/WUC: / /	LAP, ETC: / /	PROV LETR: / /
PD Book No.	Type of Right: APPL	Status: WUCS	Source of Info: WUC	Map:
			Date Verified: 05/21/1984	Initial: WE

LOCATION OF WATER RIGHT*****

FLOW: 0.015 cfs SOURCE: Underground Water Well
COUNTY: San Juan COMMON DESCRIPTION: 7 1/2 Miles North of Bluff

POINT OF DIVERSION -- UNDERGROUND:
(1) N 1800 ft E 1700 ft from SW cor, Sec 17, T 39S, R 22E, SLBM DIAM: 7 ins. DEPTH: 820 to ft. YEAR DRILLED: WELL
Comment:

PLACE OF USE OF WATER RIGHT*****

	NORTH-WEST4	NORTH-EAST4	SOUTH-WEST4	SOUTH-EAST4
	NW NE SW SE			
Sec 17 T 39S R 22E SLBM	* : : *	* : : *	* X: X: : *	* : : *

SEELEY OIL COMPANY

P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

Cowboy #1

Requirement R649-5-2-2.11

A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals.

The only active well within a one-half mile radius of the proposed injection well is the Seeley Oil Cowboy #5. The Seeley Oil Cowboy #7 is just outside a one-mile radius. Both wells are currently producing and appear to be in good mechanical condition. The Cowboy #'s 2, 3, 4, and 6 have been plugged and abandoned.

SEELEY OIL COMPANY
P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

Cowboy #1

Requirement R649-5-2-2.12

An affidavit certifying that a copy of the application has been provided to all operators, owners, and surface owners within a one-half mile radius of the proposed injection well.

Affidavit is attached.

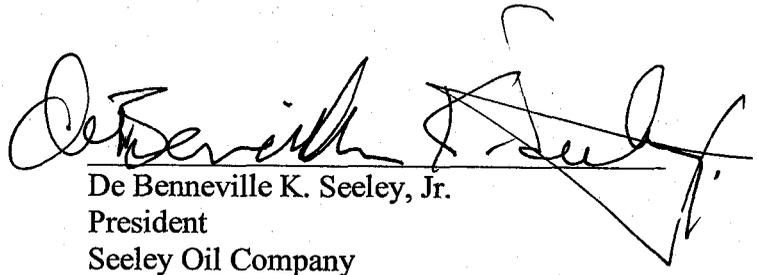
SEELEY OIL COMPANY

P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

Cowboy # 1
1980 feet from South Line, 660 feet from West Line
NW SW of Section 14, Township 39 South, Range 22 East

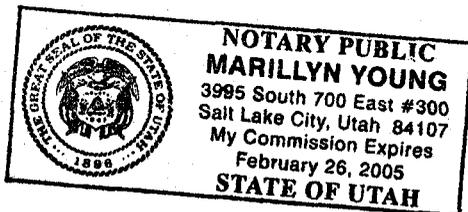
I, De Benneville K. Seeley, Jr., President of Seeley Oil, hereby certify the following:

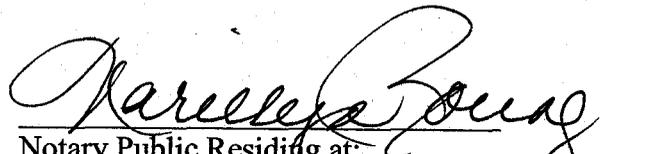
A copy of the water injection permit application for the above captioned well has been provided to all surface owners and operators located within a ½ mile radius exposure of the location.


De Benneville K. Seeley, Jr.
President
Seeley Oil Company

Subscribed and sworn before me this 30th day of November 2001,

Witness my hand and official seal.




Notary Public Residing at:
3995 So. 700 E. #300
SLC, Utah 84107

My commision expires: 2/26/05

SEELEY OIL COMPANY
P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

November 30, 2001

United States of America
C/o Bureau of Land Management
P.O. Box 45155
Salt Lake City, Utah 84115-0155

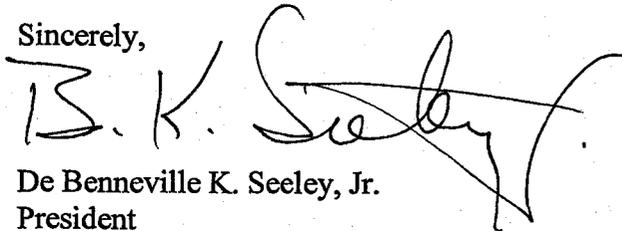
RE: Application for Injection Well – UIC Form 1
Seeley Oil Company Cowboy # 1
NW SW of Section 14, Township 39 South, Range 22 East
San Juan County, Utah

Dear Sir or Madam:

As required by the State of Utah Oil and Gas Conservation regulations, R649-5-2.2.12, the enclosed permit application, for the proposed captioned well, must be provided to all operators, owners, and surface owners located within a one-half mile radius of exposure.

If you have any questions in regards to this notice, please call me at (801) 467-6419 or contact Mr. Brad Hill of the Division of Oil, Gas, and Mining in Salt Lake City, Utah.

Sincerely,



De Benneville K. Seeley, Jr.
President
Seeley Oil Company

Enclosure

SEELEY OIL COMPANY
P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

November 30, 2001

Mr. Ed Pendleton
609 West Littleton Boulevard
Littleton, CO 80120

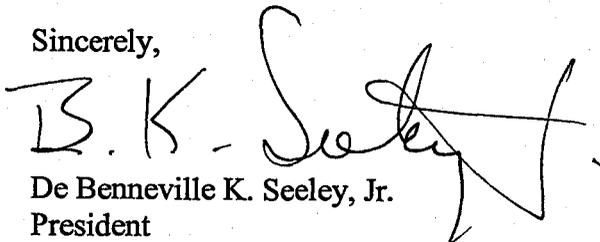
RE: Application for Injection Well – UIC Form 1
Seeley Oil Company Cowboy # 1
NW SW of Section 14, Township 39 South, Range 22 East
San Juan County, Utah

Dear Mr. Pendleton:

As required by the State of Utah Oil and Gas Conservation regulations, R649-5-2.2.12, the enclosed permit application, for the proposed captioned well, must be provided to all operators, owners, and surface owners located within a one-half mile radius of exposure.

If you have any questions in regards to this notice, please call me at (801) 467-6419 or contact Mr. Brad Hill of the Division of Oil, Gas, and Mining in Salt Lake City, Utah.

Sincerely,



De Benneville K. Seeley, Jr.
President
Seeley Oil Company

Enclosure

SEELEY OIL COMPANY
P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

November 30, 2001

Mr. Jerry Gentry
Stone Energy LLC
1670 Broadway, Suite 2800
Denver, CO 80202

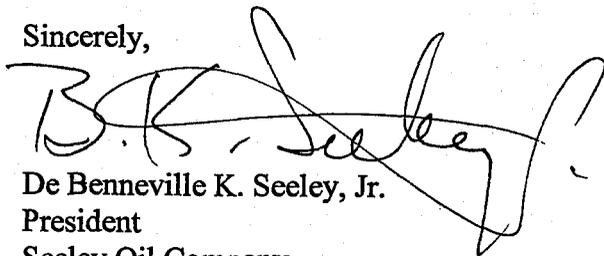
RE: Application for Injection Well – UIC Form 1
Seeley Oil Company Cowboy # 1
NW SW of Section 14, Township 39 South, Range 22 East
San Juan County, Utah

Dear Mr. Gentry:

As required by the State of Utah Oil and Gas Conservation regulations, R649-5-2.2.12, the enclosed permit application, for the proposed captioned well, must be provided to all operators, owners, and surface owners located within a one-half mile radius of exposure.

If you have any questions in regards to this notice, please call me at (801) 467-6419 or contact Mr. Brad Hill of the Division of Oil, Gas, and Mining in Salt Lake City, Utah.

Sincerely,



De Benneville K. Seeley, Jr.
President
Seeley Oil Company

Enclosure

Stantec Consulting Inc.
3995 South 700 East Suite 300
Salt Lake City UT 84107
Tel: (801) 261-0090 Fax: (801) 266-1671
stantec.com

RECEIVED

DEC 27 2001

**DIVISION OF
OIL, GAS AND MINING**



Stantec

December 26, 2001

Mr. Mike Hebertson
Utah Division of Oil, Gas, and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Response to Permit Analysis
Application for Injection Well – UIC Form 1
Seeley Oil Company Cowboy #1
NW SW of Section 14, Township 39 South, Range 22 East
San Juan County, Utah

Dear Mr. Hebertson:

Stantec Consulting Inc. submits the following on behalf of Seeley Oil Company (Seeley) in response to your permit analysis dated December 11, 2001.

- Buildings • List of wells and their producing formations from which Seeley intends to collect water for injection in Cowboy #1
- Environment • Well completion diagrams for wells Cowboy #1 through #7 showing casing, plugs, cement types and volumes.
- Industrial • North-south and west-east cross sections though the Cowboy field showing the injection zones and the confining layers.
- Transportation • A structure map of the Cowboy field.
- Urban Land • A spreadsheet with volumetric calculations for the four producing wells in the field.

With the submittal of this information, Seeley respectfully requests that the Division of Oil, Gas, and Mining proceed administratively with the injection permit approval process, and publish the necessary notifications.

For questions or comments, please contact me at 801-261-0090, or Mr. Kim Seeley at 801-467-6419.

Sincerely,

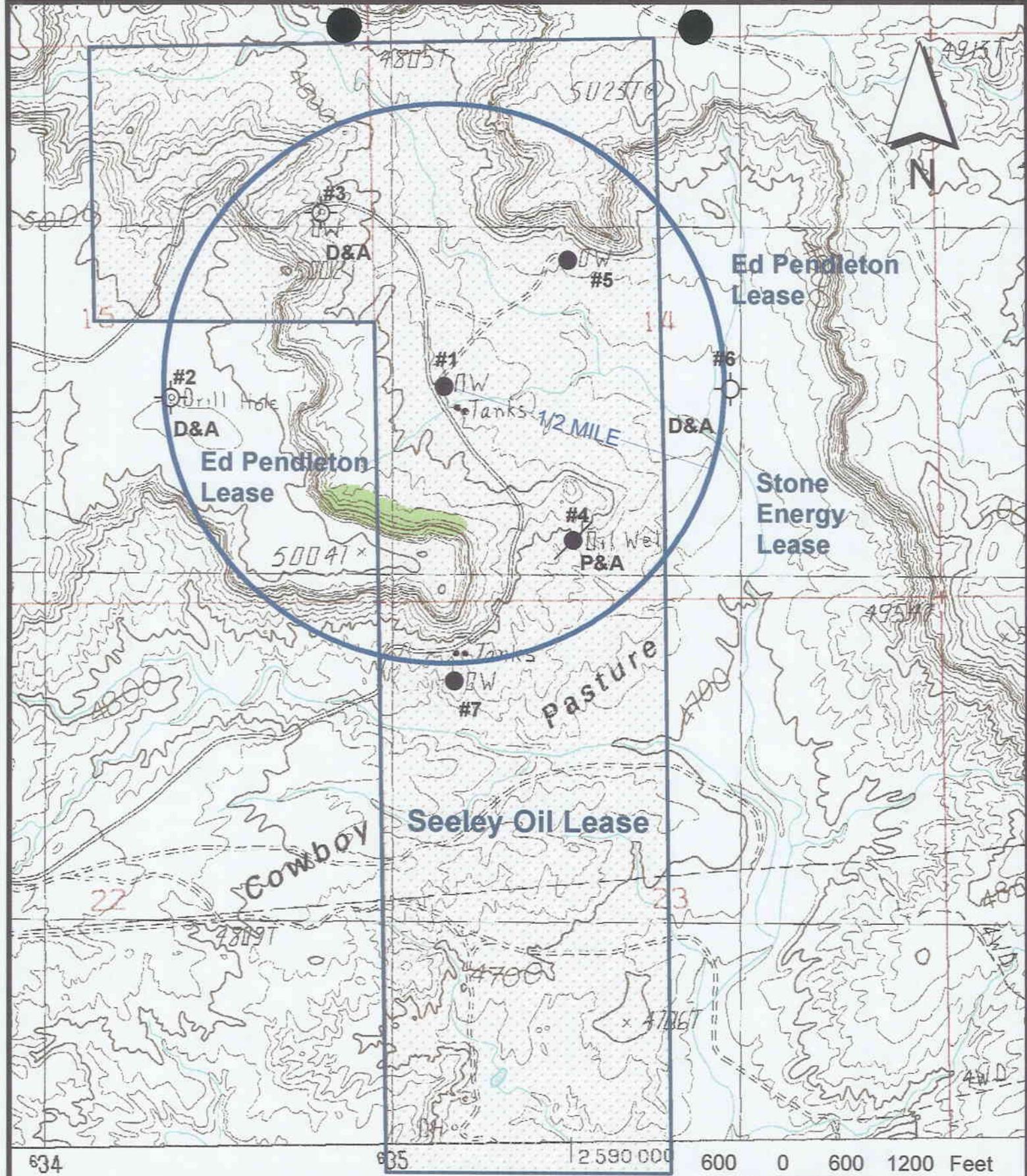
Stantec Consulting Inc.



David R. Friz, R.G.
Senior Project Geologist

Attachments: as noted

cc: B. K. Seeley, Jr. – Seeley Oil Company
Brad Hill – Utah Division of Oil, Gas, and Mining



UNITED STATES GEOLOGICAL SURVEY

Cowboy Field Site Plat
 Sec. 14, T.39 S., R.22 E.
 San Juan County, Utah

Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109

List of wells and their producing formations from which Seeley Oil Company intends to collect water for injection in Cowboy #1:

Cowboy Field; Cowboy # 5 and #7; Lower Ismay

Recapture Pocket Field; Recapture Pocket 3 1, #5, and #7, Desert Creek

Cherokee Field; #11-14, #22-14, #43-14; Lower Ismay

It is likely that other operators in the vicinity may wish to dispose of produced water in the Cowboy #1, if approved. The exact wells are not known at this time, but Seeley Oil anticipates that the water will be produced from either the Lower Ismay or Desert Creek zones.

COWBOY #1
 API# 43-037-30012
 CURRENT COMPLETION

LOCATION:

1980 FSL & 660 FWL
 NW SW SEC. 14, T39S, R22E
 SAN JUAN COUNTY, UT

SPUD DATE: 5-28-68

ELEVATION: KB - 4789.20'
 GR - 4777'

FORMATION TOPS:

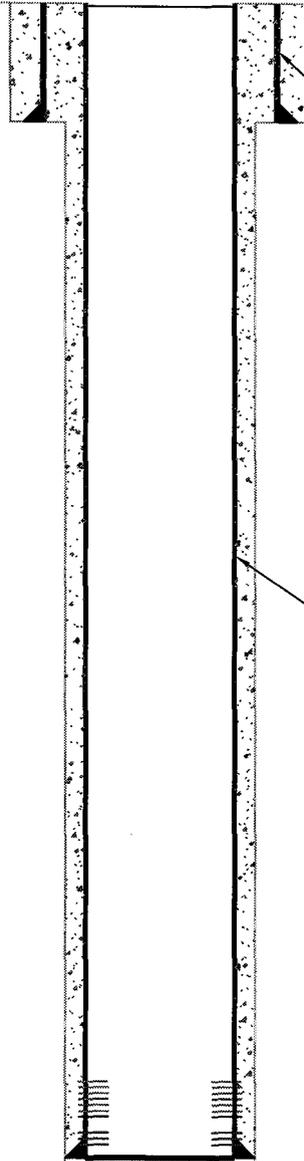
MORRISON	0
NAVAJO	721
CHINLE	1746
SHINARUMP	2467
MOENKOPI	2534
DECHELLE	2830
ORGAN ROCK SHALE	2954
CUTLER	3611
HERMOSA	4800
ISMAY	5630
DESERT CREEK	5864
AKAH	5965

LOWER ISMAY PERFS:

5760-5800

DESERT CREEK PERFS:

5922-5932



10-3/4 IN., 32.75#, CSG.
 Set @ 537' in 13-3/4 IN. Hole.
 CMT w/ 375 SKS.

5-1/2 IN., 17#, CSG.
 Set @ 6030' in 7-7/8 IN. Hole.
 CMT w/ 477 SKS.

PBSD - 5992
 TD - 6031

Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109

COWBOY #1
 API #43-037-30012
 CURRENT COMPLETION

SCALE: NO SCALE

DRAWN BY: SGS

COWBOY #2
 API# 43-037-30017
 DRILLED AND ABANDONED
 (Mountain Fuel Supply Co.)

LOCATION:

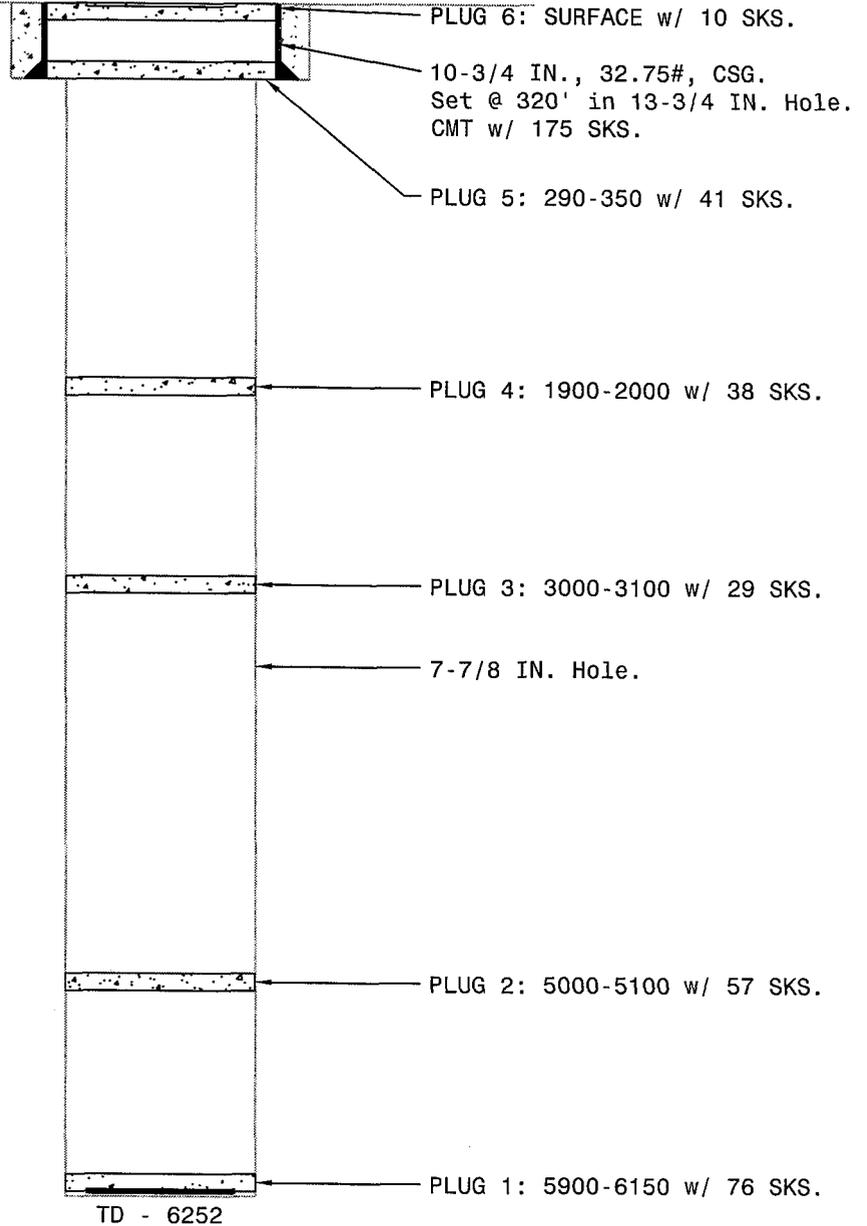
1980 FSL & 660 FEL
 NW SE SEC. 15, T39S, R22E
 SAN JUAN COUNTY, UT

SPUD DATE: 7-19-68

ELEVATION: KB - 5022.05'
 GR - 5011'

FORMATION TOPS:

NAVAJO	920
CHINLE	1956
SHINARUMP	2671
MOENKOPI	2760
DECHELLY	3049
ORGAN ROCK SHALE	3162
CUTLER	3897
HERMOSA	5034
ISMAY	5870
DESERT CREEK	6112
AKAH	6212



Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109

COWBOY #2
 API #43-037-30017
 DRILLED AND ABANDONED

SCALE: NO SCALE

DRAWN BY: SGS

COWBOY #3
 API# 43-037-30070
 DRILLED AND ABANDONED
 (Mountain Fuel Supply Co.)

LOCATION:

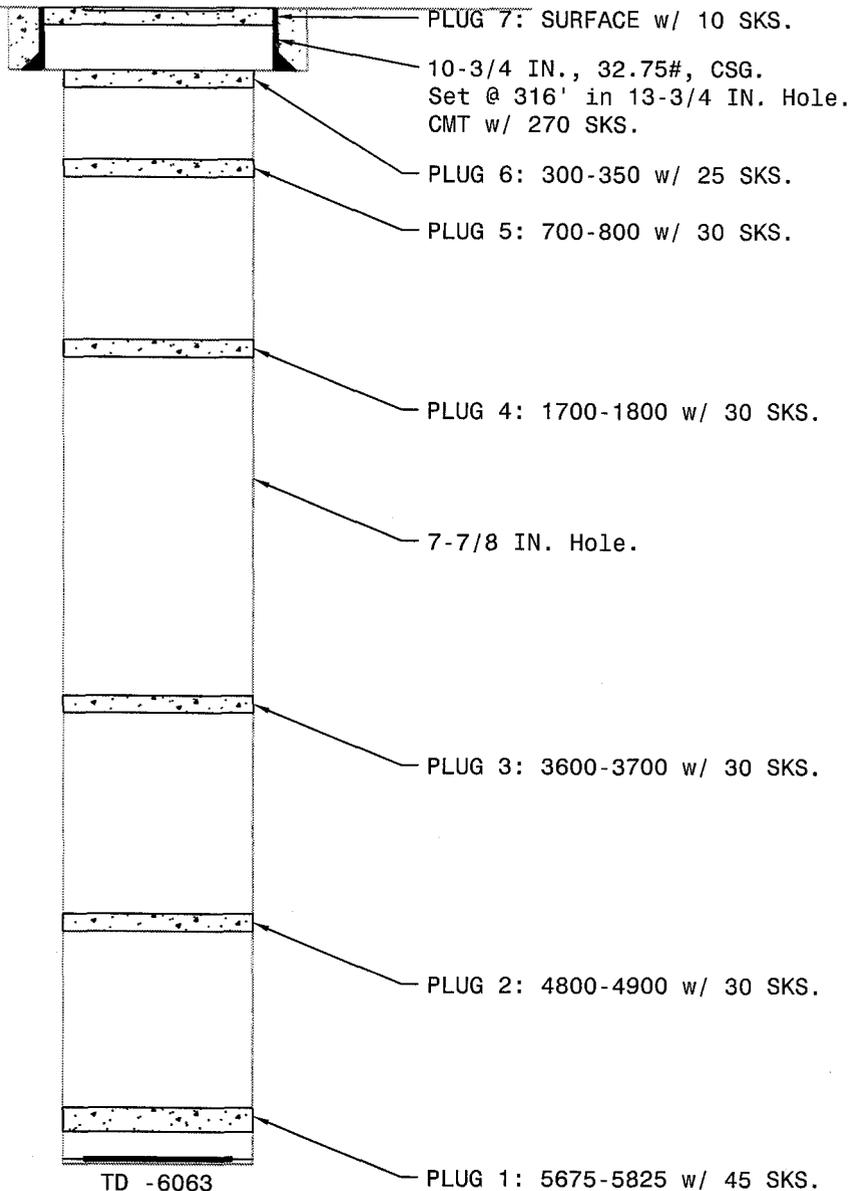
1720 FNL & 460 FEL
 SE NE SEC. 15, T39S, R22E
 SAN JUAN COUNTY, UT

SPUD DATE: 9-1-68

ELEVATION: KB - 4841.05'
 GR - 4830'

FORMATION TOPS:

NAVAJO	757
CHINLE	1778
SHINARUMP	2490
MOENKOPI	2580
DECHELLY	2883
ORGAN ROCK SHALE	3010
CUTLER	3637
HERMOSA	4863
ISMAY	5695
DESERT CREEK	5929
AKAH	6030



Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109

COWBOY #3
 API #43-037-30070
 DRILLED AND ABANDONED

SCALE: NO SCALE

DRAWN BY: SGS

COWBOY #4
 API# 43-037-30037
 PLUGGED AND ABANDONED

LOCATION:

510 FSL & 1925 FWL
 SE SW SEC. 14, T39S, R22E
 SAN JUAN COUNTY, UT

SPUD DATE: 2-5-69

ELEVATION: KB - 4800.20'
 GR - 4788'

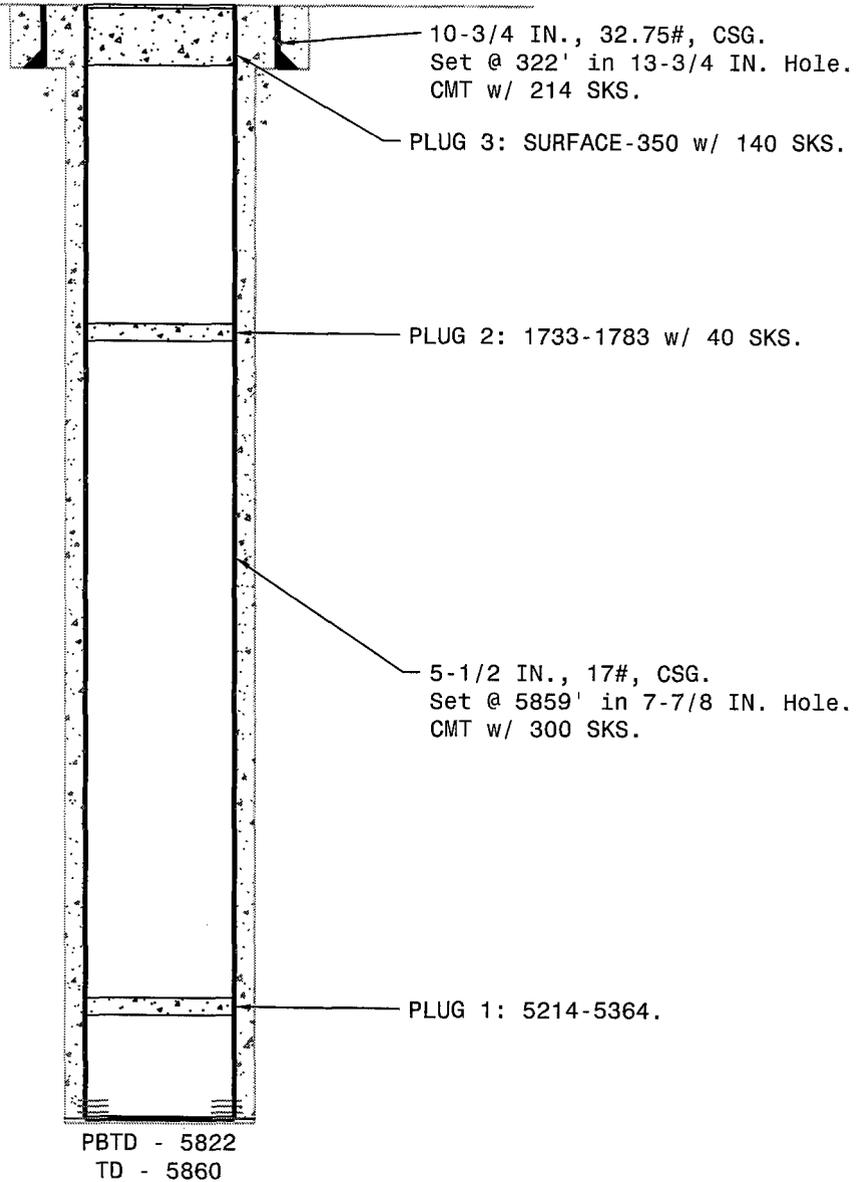
FORMATION TOPS:

HERMOSA	4800
ISMAY	5627

LOWER ISMAY PERFS:

5750-5784'

P+A: 2-25-01



Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109

COWBOY #4
 API #43-037-30037
 CURRENT COMPLETION

SCALE: NO SCALE

DRAWN BY: SGS

COWBOY #5
API# 43-037-30062
CURRENT COMPLETION

LOCATION:

1980 FNL & 1980 FWL
SW NW SEC. 14, T39S, R22E
SAN JUAN COUNTY, UT

SPUD DATE: 8-22-71

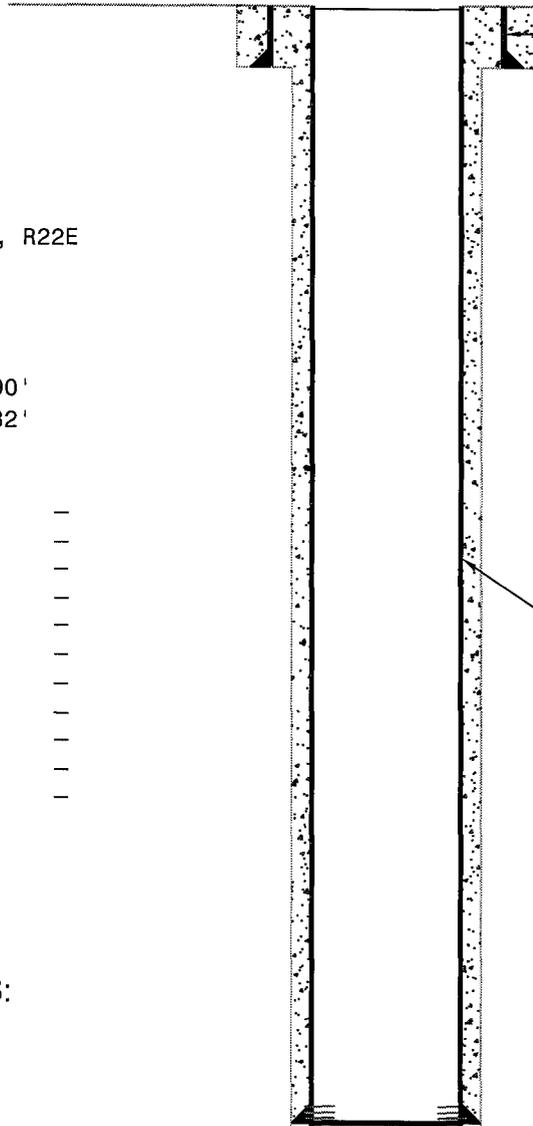
ELEVATION: KB - 4790'
GR - 4782'

FORMATION TOPS:

NAVAJO -
CHINLE -
SHINARUMP -
MOENKOPI -
DECHELLY -
ORGAN ROCK SHALE -
CUTLER -
HERMOSA -
ISMAY -
DESERT CREEK -
AKAH -

LOWER ISMAY PERFS:

5752-5784



8-5/8 IN., 24#, CSG.
Set @ 304' in 12-1/4 IN. Hole.
CMT w/ 160 SKS.

5-1/2 IN., 15.5#, CSG.
Set @ 5820' in 7-7/8 IN. Hole.
CMT w/ 200 SKS.

TD - 5820

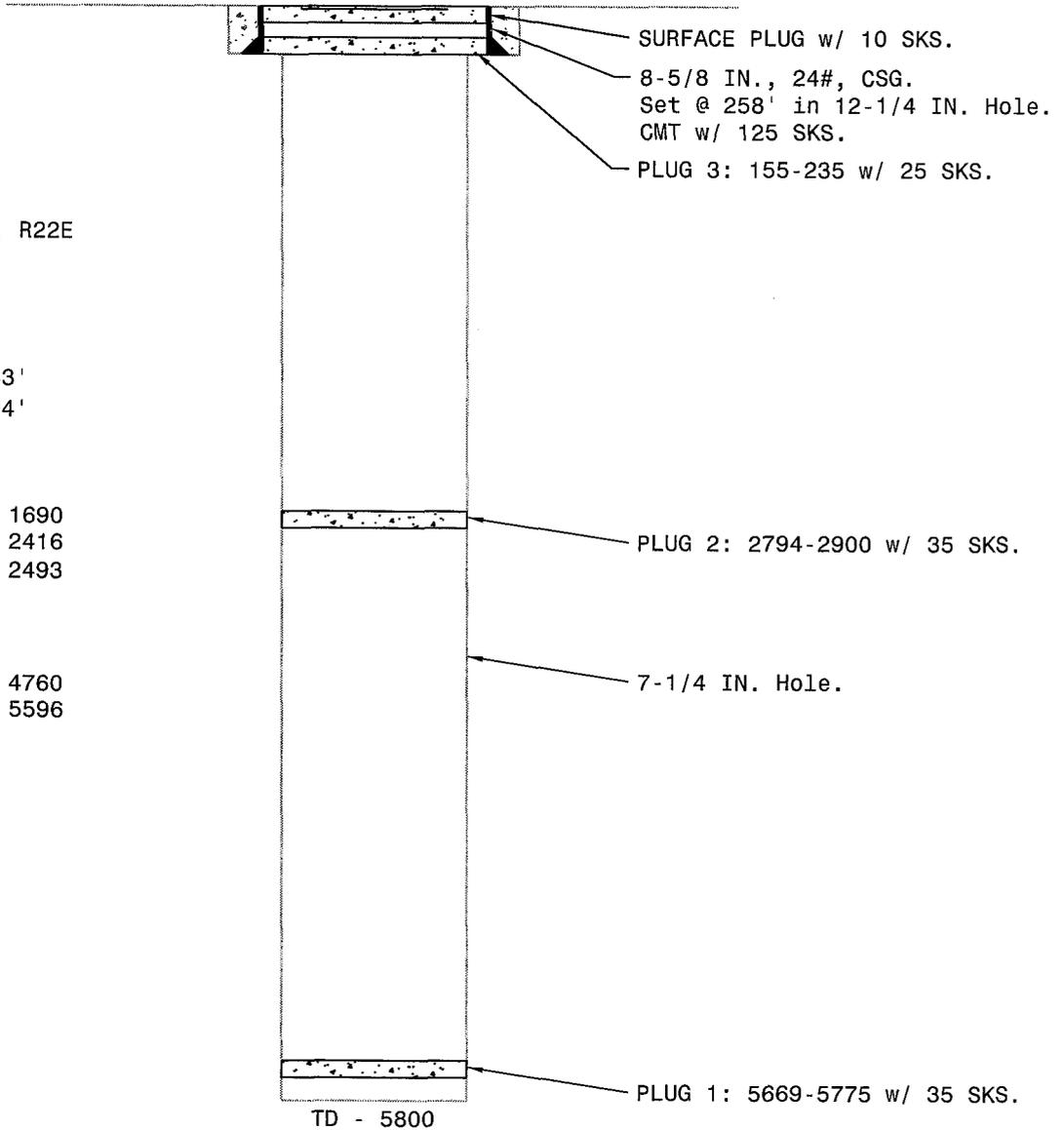
Seeley Oil Company
P.O. Box 9015
Salt Lake City, Utah 84109

COWBOY #5
API #43-037-30062
CURRENT COMPLETION

SCALE: NO SCALE

DRAWN BY: SGS

COWBOY #6
 API# 43-037-30070
 DRILLED AND ABANDONED



LOCATION:

1980 FSL & 1981 FEL
 NW SE SEC. 14, T39S, R22E
 SAN JUAN COUNTY, UT

SPUD DATE: 10-5-71

ELEVATION: KB - 4743'
 GR - 4734'

FORMATION TOPS:

NAVAJO	
CHINLE	1690
SHINARUMP	2416
MOENKOPI	2493
DEHELLY	
ORGAN ROCK SHALE	
CUTLER	
HERMOSA	4760
ISMAY	5596

Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109

COWBOY #6
 API #43-037-30070
 DRILLED AND ABANDONED

SCALE: NO SCALE

DRAWN BY: SGS

COWBOY #7
API# 43-037-30325
CURRENT COMPLETION

LOCATION:

763 FNL & 746 FWL
NW NW SEC. 23, T39S, R22E
SAN JUAN COUNTY, UT

SPUD DATE: 5-17-77

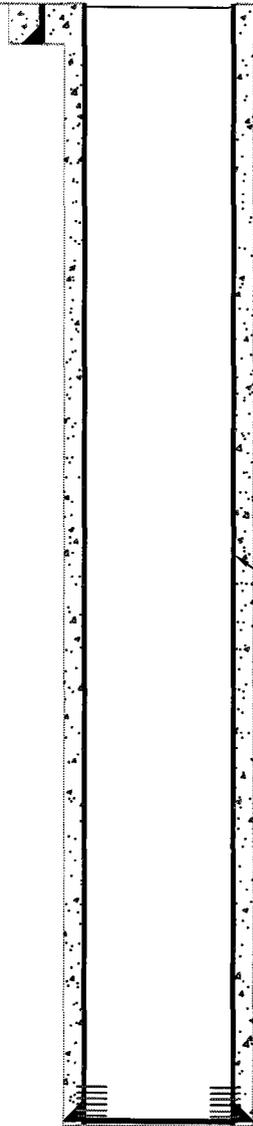
ELEVATION: KB - 4780'
GR - 4769'

FORMATION TOPS:

MORRISON
NAVAJO
CHINLE
SHINARUMP
MOENKOPI
DECHELLY
ORGAN ROCK SHALE
CUTLER
HERMOSA
ISMAY 5630
DESERT CREEK 5864
AKAH 5965

LOWER ISMAY PERFS:

5609-5611
5635-5659
5683-5692
5727-5746
5761-5765



TD - 5810

8-5/8 IN., 24#, CSG.
Set @ 219' in 12-1/4 IN. Hole.
CMT w/ 200 SKS.

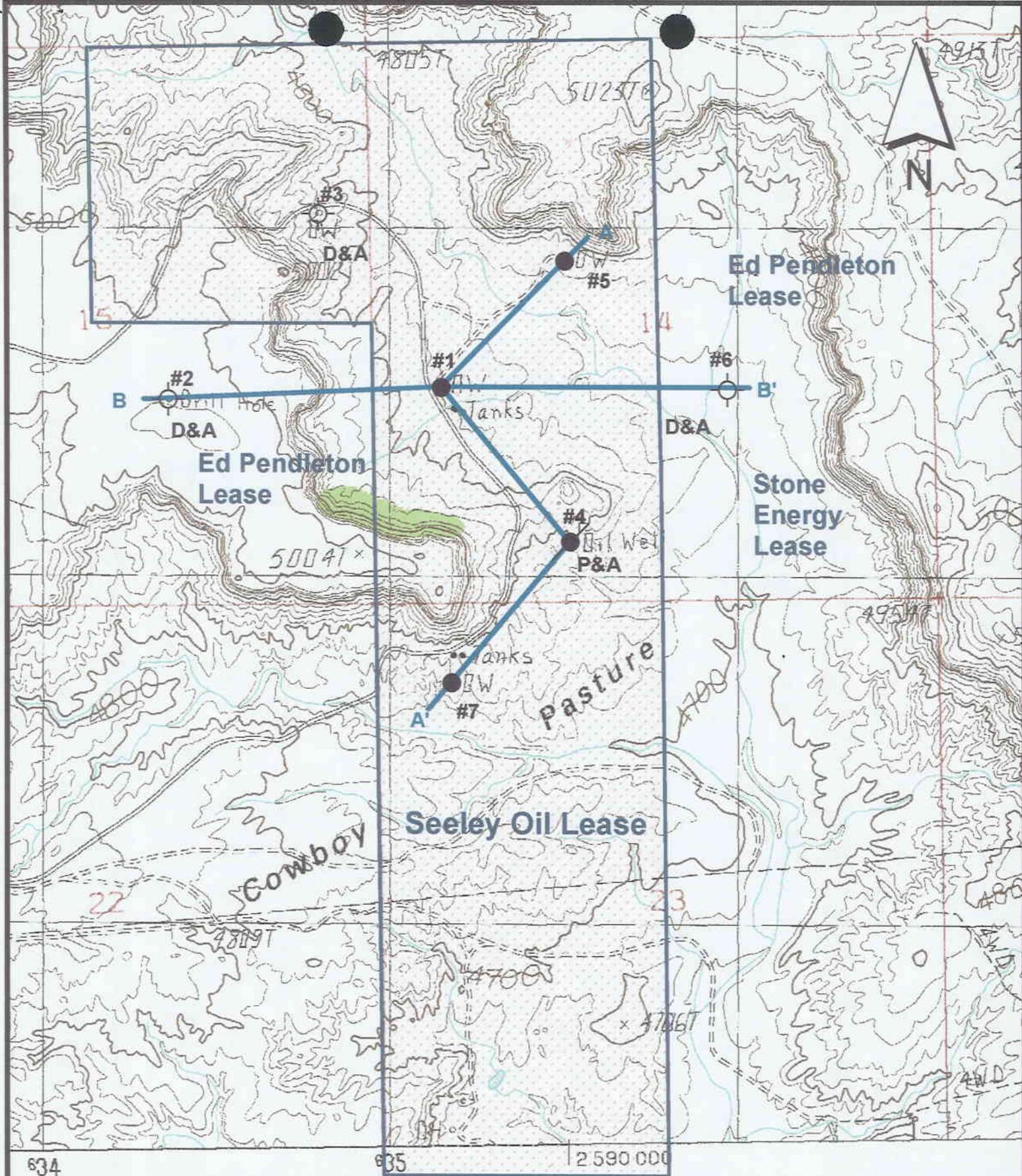
4-1/2 IN., 10.5#, CSG.
Set @ 5808' in 7-7/8 IN. Hole.
CMT w/ 180 SKS.

Seeley Oil Company
P.O. Box 9015
Salt Lake City, Utah 84109

COWBOY #7
API #43-037-30325
CURRENT COMPLETION

SCALE: NO SCALE

DRAWN BY: SGS



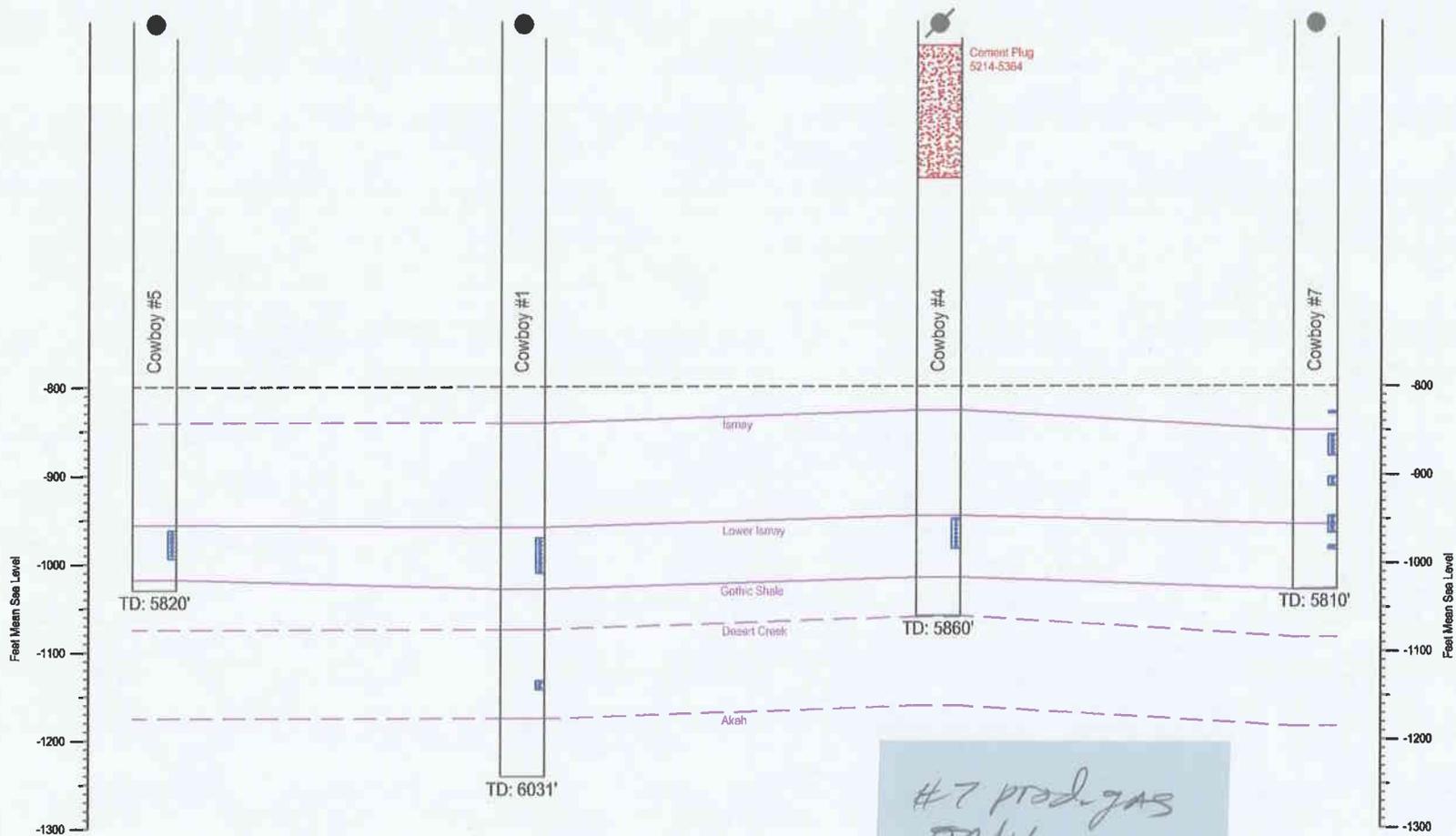
UNITED STATES GEOLOGICAL SURVEY

Cowboy Field Cross-Section Index
 Sec. 14, T.39 S., R.22 E.
 San Juan County, Utah

Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109

A
North

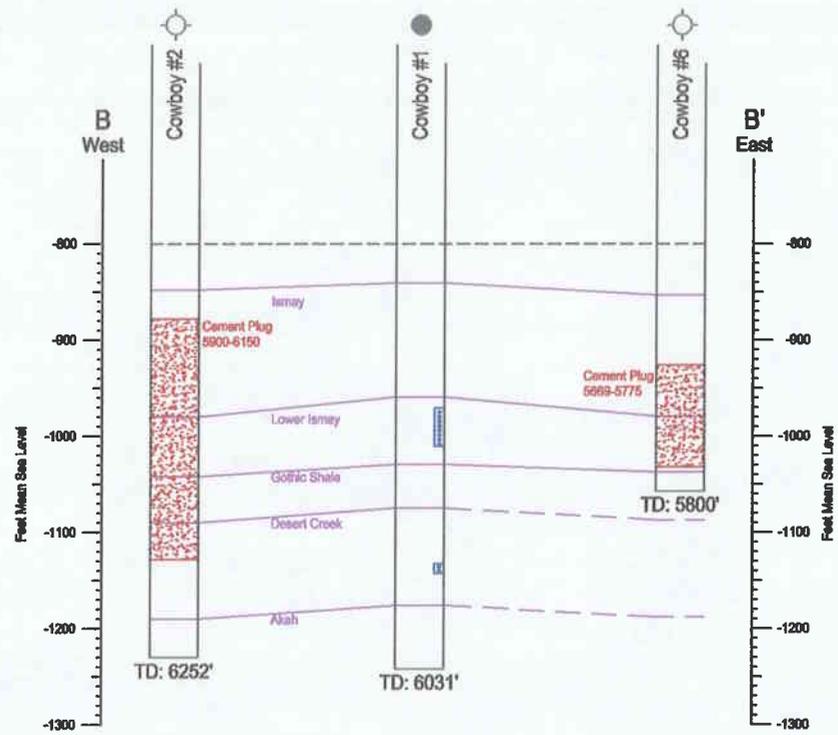
A'
South



Cowboy Field Cross-Section A-A'
Sections 14, 15, 23, T.39 S., R.22 E.
San Juan County, Utah

vert: 1 in = 200 ft
horz: 1 in = 2000 ft

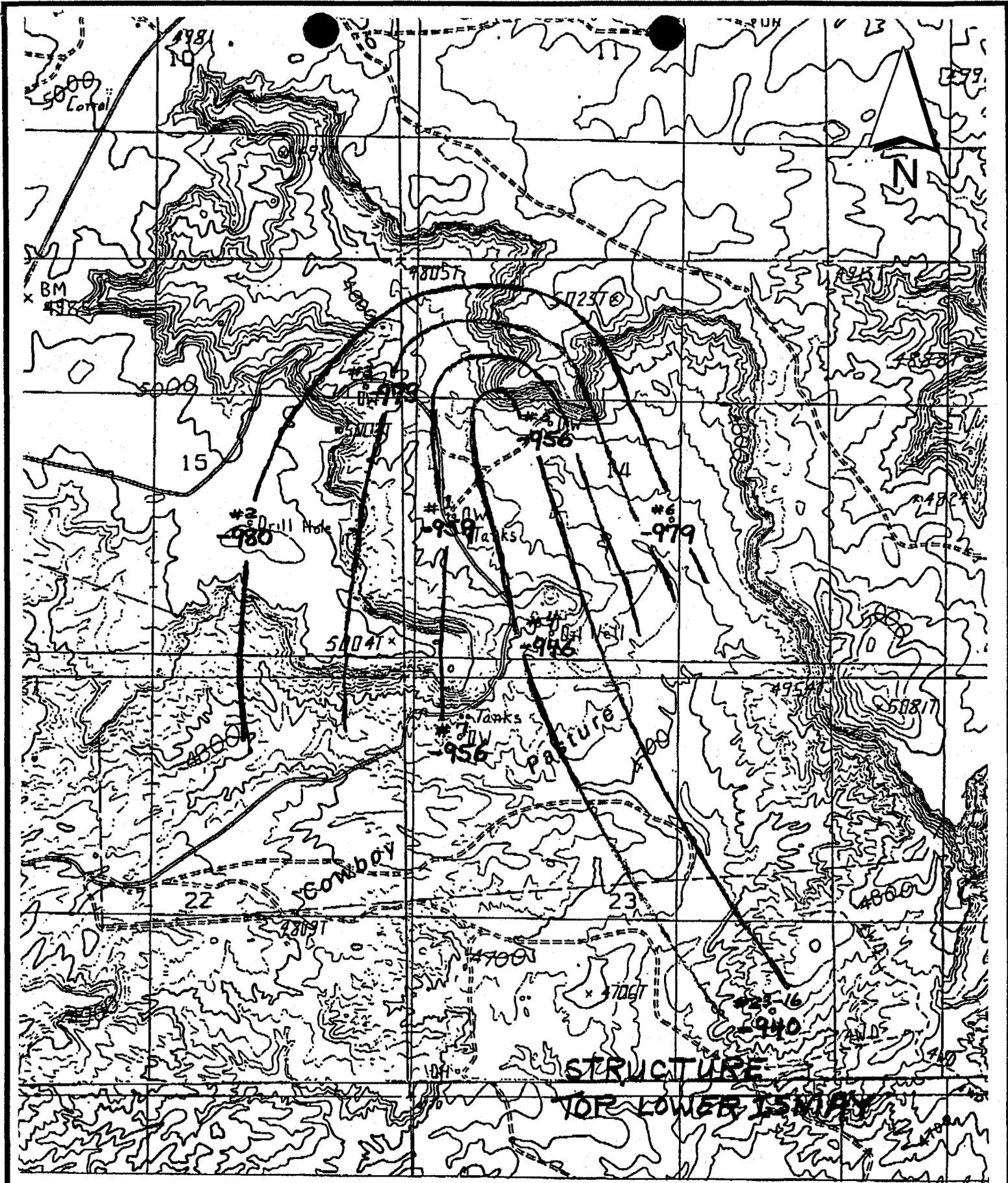
Seeley Oil Company
P.O. Box 9015
Salt Lake City, Utah 84109



Cowboy Field Cross-Section B-B'
 Sections 14, 15, 23, T.39 S., R.22 E.
 San Juan County, Utah

vert: 1 in = 200 ft
 horz: 1 in = 2000 ft

Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109



Seeley Oil Company
Volumetric Calculations Sheet

	Cowboy #1	Cowboy #4	Cowboy #5	Cowboy #7	Total
Pay Thickness (1)	33	22	7	2	
Porosity (2)	0.05	0.05	0.08	0.07	
Water Saturation (3)	0.4	0.4	0.4	0.4	
Acres	80	80	80	80	
Original Oil in Place - RB	614,434	409,622	208,535	52,134	1,284,725
Original Oil in Place - STB (4)	558,576	372,384	189,577	47,394	1,167,932
CUMULATIVE PRODUCTION					
Oil (BBL) (5)	95,381	17,617	87,922	8,972	209,892
Gas (MCF) (5)	5,840	1,267	22,179	4,349	33,635
Water (BBL) (5)	2,379	3,001	5,651	4,711	15,742
% Recovery of OOIP - STB	0.171	0.047	0.464	0.189	0.180

Notes:

- (1) Data from Seeley Oil
- (2) Average Porosity from logs
- (3) Sw from Cowboy #1 analysis
- (4) Assume 1.1 RB/STB
- (5) Production data from DOGM records

RB = Reservoir barrels
 STB = Stock tank barrels

Stantec Consulting Inc.
3995 South 700 East Suite 300
Salt Lake City UT 84107
Tel: (801) 261-0090 Fax: (801) 266-1671
stantec.com



Stantec

RECEIVED

DEC 28 2001

DIVISION OF
OIL, GAS AND MINING

UIC-285.1

December 26, 2001

Mr. Mike Hebertson
Utah Division of Oil, Gas, and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Response to Permit Analysis
Application for Injection Well – UIC Form 1
Seeley Oil Company Cowboy #1
NW SW of Section 14, Township 39 South, Range 22 East
San Juan County, Utah

Dear Mr. Hebertson:

Stantec Consulting Inc. submits the following on behalf of Seeley Oil Company (Seeley) in response to your permit analysis dated December 11, 2001.

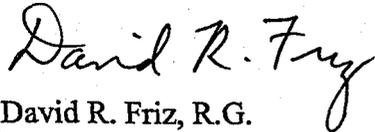
- Buildings • List of wells and their producing formations from which Seeley intends to collect water for injection in Cowboy #1
- Environment • Well completion diagrams for wells Cowboy #1 through #7 showing casing, plugs, cement types and volumes.
- Industrial • North-south and west-east cross sections through the Cowboy field showing the injection zones and the confining layers.
- Transportation • A structure map of the Cowboy field.
- Urban Land • A spreadsheet with volumetric calculations for the four producing wells in the field.

With the submittal of this information, Seeley respectfully requests that the Division of Oil, Gas, and Mining proceed administratively with the injection permit approval process, and publish the necessary notifications.

For questions or comments, please contact me at 801-261-0090, or Mr. Kim Seeley at 801-467-6419.

Sincerely,

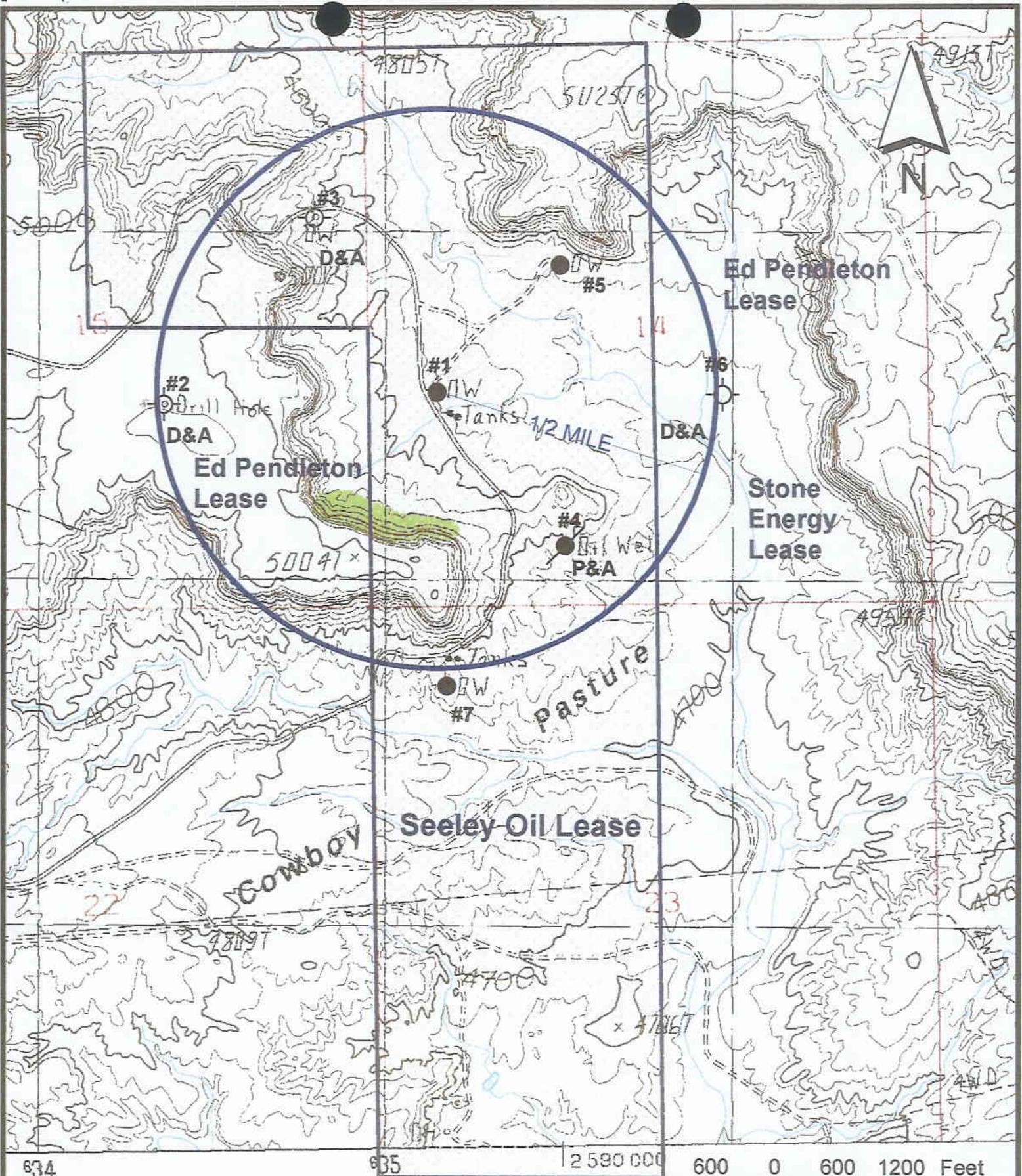
Stantec Consulting Inc.



David R. Friz, R.G.
Senior Project Geologist

Attachments: as noted

cc: B. K. Seeley, Jr. – Seeley Oil Company
Brad Hill – Utah Division of Oil, Gas, and Mining



UNITED STATES GEOLOGICAL SURVEY

Cowboy Field Site Plat
 Sec. 14, T.39 S., R.22 E.
 San Juan County, Utah

Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109

List of wells and their producing formations from which Seeley Oil Company intends to collect water for injection in Cowboy #1:

Cowboy Field; Cowboy # 5 and #7; Lower Ismay

Recapture Pocket Field; Recapture Pocket 3 1, #5, and #7, Desert Creek

Cherokee Field; #11-14, #22-14, #43-14; Lower Ismay

It is likely that other operators in the vicinity may wish to dispose of produced water in the Cowboy #1, if approved. The exact wells are not known at this time, but Seeley Oil anticipates that the water will be produced from either the Lower Ismay or Desert Creek zones.

COWBOY #1
 API# 43-037-30012
 CURRENT COMPLETION

LOCATION:

1980 FSL & 660 FWL
 NW SW SEC. 14, T39S, R22E
 SAN JUAN COUNTY, UT

SPUD DATE: 5-28-68

ELEVATION: KB - 4789.20'
 GR - 4777'

FORMATION TOPS:

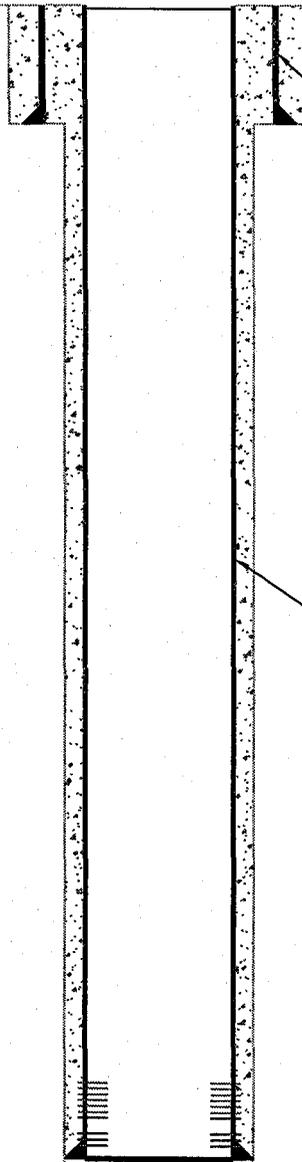
MORRISON	0
NAVAJO	721
CHINLE	1746
SHINARUMP	2467
MOENKOPI	2534
DEHELLY	2830
ORGAN ROCK SHALE	2954
CUTLER	3611
HERMOSA	4800
ISMAY	5630
DESERT CREEK	5864
AKAH	5965

LOWER ISMAY PERFS:

5760-5800

DESERT CREEK PERFS:

5922-5932



10-3/4 IN., 32.75#, CSG.
 Set @ 537' in 13-3/4 IN. Hole.
 CMT w/ 375 SKS.

5-1/2 IN., 17#, CSG.
 Set @ 6030' in 7-7/8 IN. Hole.
 CMT w/ 477 SKS.

PBTD - 5992
 TD - 6031

Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109

COWBOY #1
 API #43-037-30012
 CURRENT COMPLETION

SCALE: NO SCALE

DRAWN BY: SGS

COWBOY #2
API# 43-037-30017
DRILLED AND ABANDONED
(Mountain Fuel Supply Co.)

LOCATION:

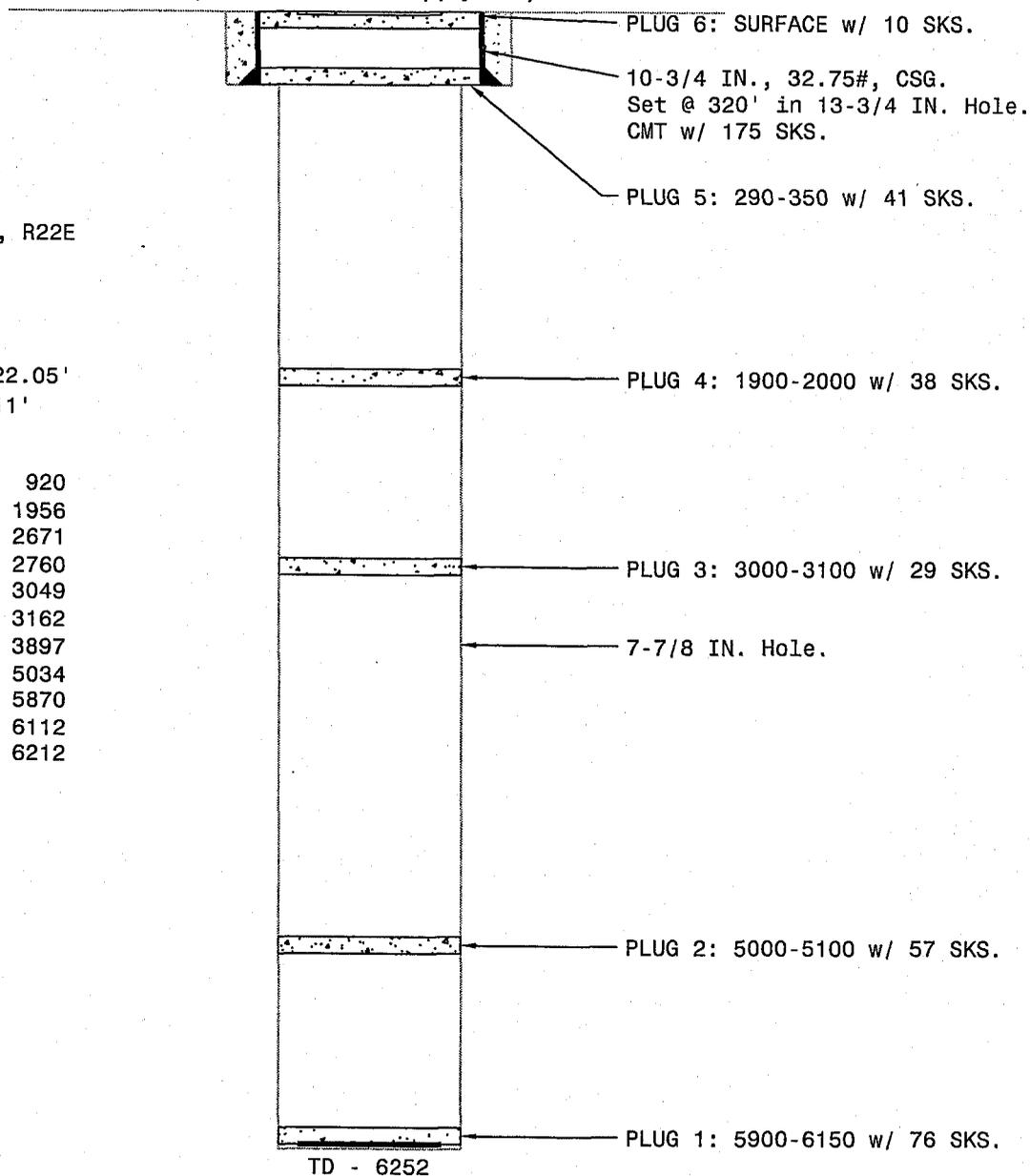
1980 FSL & 660 FEL
 NW SE SEC. 15, T39S, R22E
 SAN JUAN COUNTY, UT

SPUD DATE: 7-19-68

ELEVATION: KB - 5022.05'
 GR - 5011'

FORMATION TOPS:

NAVAJO	920
CHINLE	1956
SHINARUMP	2671
MOENKOPI	2760
DEHELLY	3049
ORGAN ROCK SHALE	3162
CUTLER	3897
HERMOSA	5034
ISMAY	5870
DESERT CREEK	6112
AKAH	6212



Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109

COWBOY #2
API #43-037-30017
DRILLED AND ABANDONED

SCALE: NO SCALE

DRAWN BY: SGS

COWBOY #3
 API# 43-037-30070
 DRILLED AND ABANDONED
 (Mountain Fuel Supply Co.)

LOCATION:

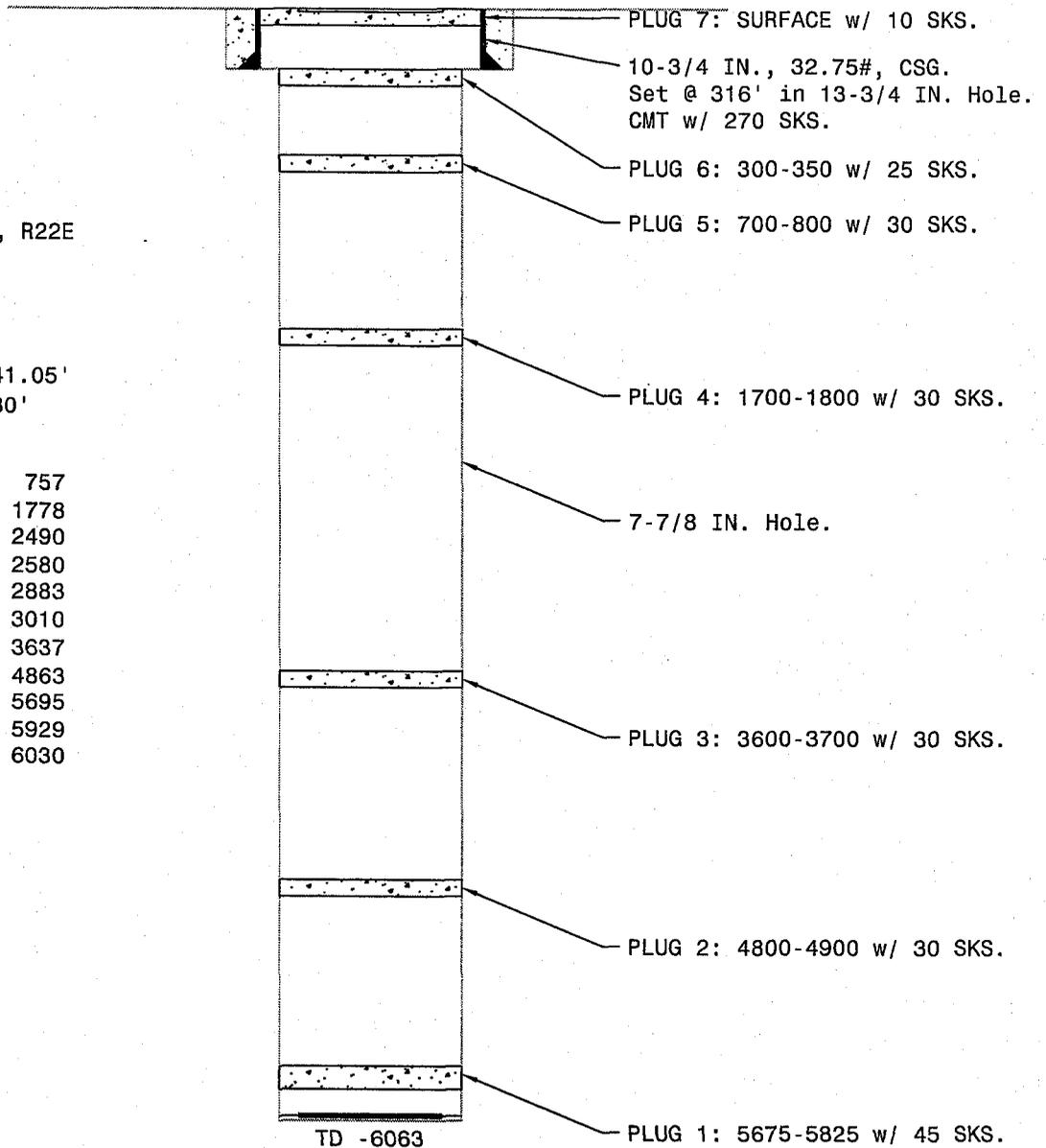
1720 FNL & 460 FEL
 SE NE SEC. 15, T39S, R22E
 SAN JUAN COUNTY, UT

SPUD DATE: 9-1-68

ELEVATION: KB - 4841.05'
 GR - 4830'

FORMATION TOPS:

NAVAJO	757
CHINLE	1778
SHINARUMP	2490
MOENKOPI	2580
DEHELLY	2883
ORGAN ROCK SHALE	3010
CUTLER	3637
HERMOSA	4863
ISMAY	5695
DESERT CREEK	5929
AKAH	6030



Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109

COWBOY #3
 API #43-037-30070
 DRILLED AND ABANDONED

SCALE: NO SCALE

DRAWN BY: SGS

COWBOY #4
API# 43-037-30037
PLUGGED AND ABANDONED

LOCATION:

510 FSL & 1925 FWL
SE SW SEC. 14, T39S, R22E
SAN JUAN COUNTY, UT

SPUD DATE: 2-5-69

ELEVATION: KB - 4800.20'
GR - 4788'

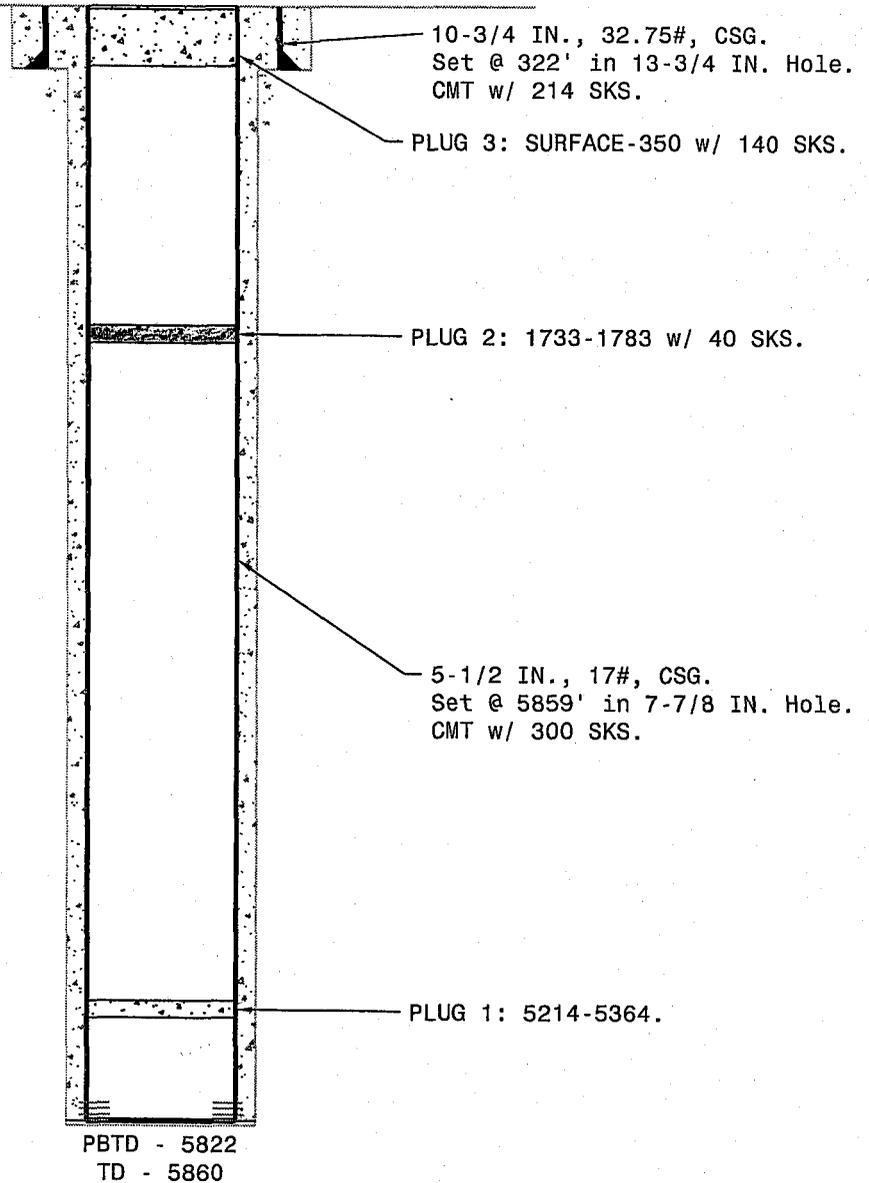
FORMATION TOPS:

HERMOSA 4800
ISMAY 5627

LOWER ISMAY PERFS:

5750-5784'

P+A: 2-25-01



Seeley Oil Company
P.O. Box 9015
Salt Lake City, Utah 84109

COWBOY #4
API #43-037-30037
CURRENT COMPLETION

SCALE: NO SCALE

DRAWN BY: SGS

COWBOY #5
API# 43-037-30062
CURRENT COMPLETION

LOCATION:

1980 FNL & 1980 FWL
SW NW SEC. 14, T39S, R22E
SAN JUAN COUNTY, UT

SPUD DATE: 8-22-71

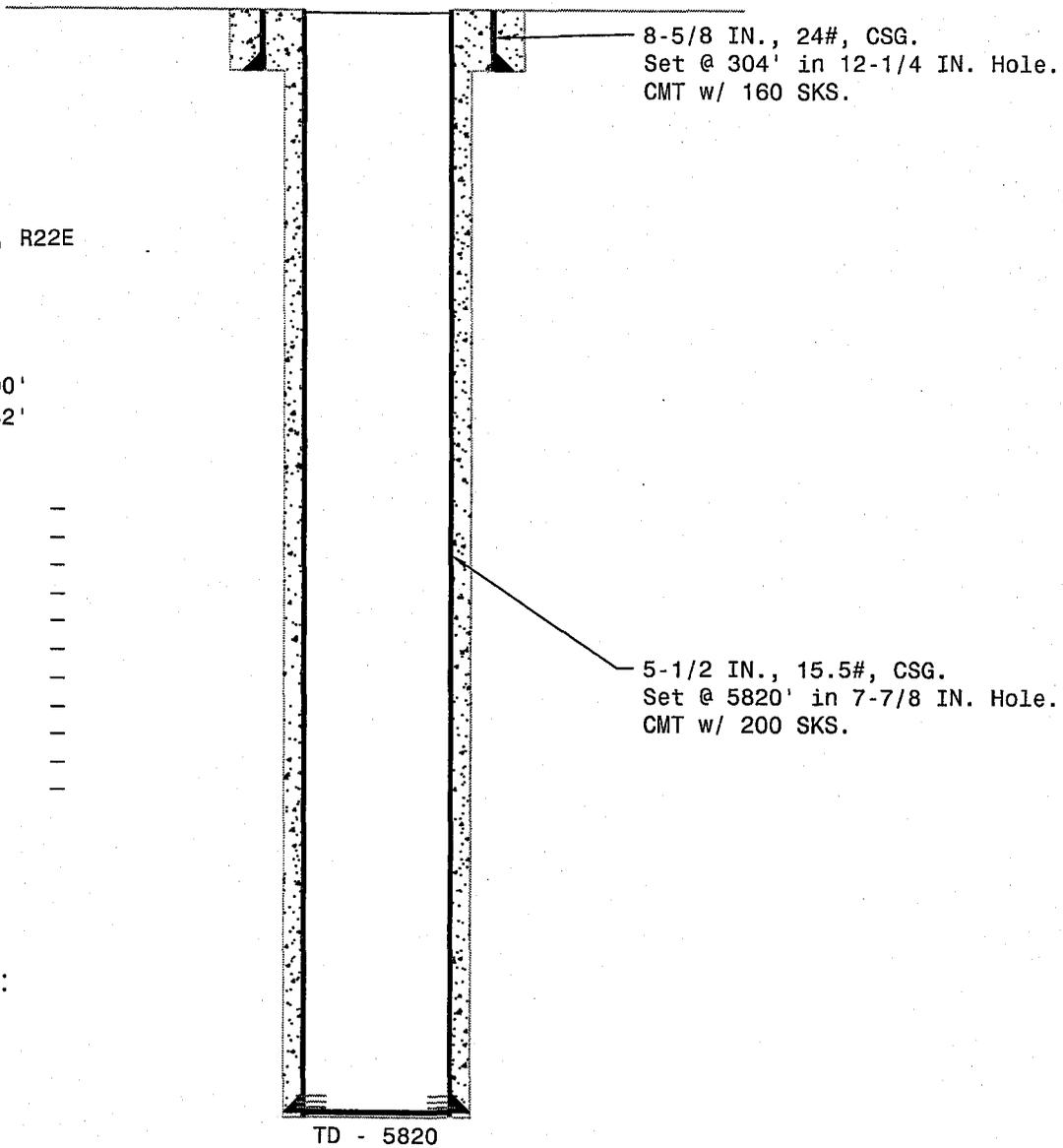
ELEVATION: KB - 4790'
GR - 4782'

FORMATION TOPS:

NAVAJO
CHINLE
SHINARUMP
MOENKOPI
DECHELLY
ORGAN ROCK SHALE
CUTLER
HERMOSA
ISMAY
DESERT CREEK
AKAH

LOWER ISMAY PERFS:

5752-5784



TD - 5820

Seeley Oil Company
P.O. Box 9015
Salt Lake City, Utah 84109

COWBOY #5
API #43-037-30062
CURRENT COMPLETION

SCALE: NO SCALE

DRAWN BY: SGS

COWBOY #6
 API# 43-037-30070
 DRILLED AND ABANDONED

LOCATION:

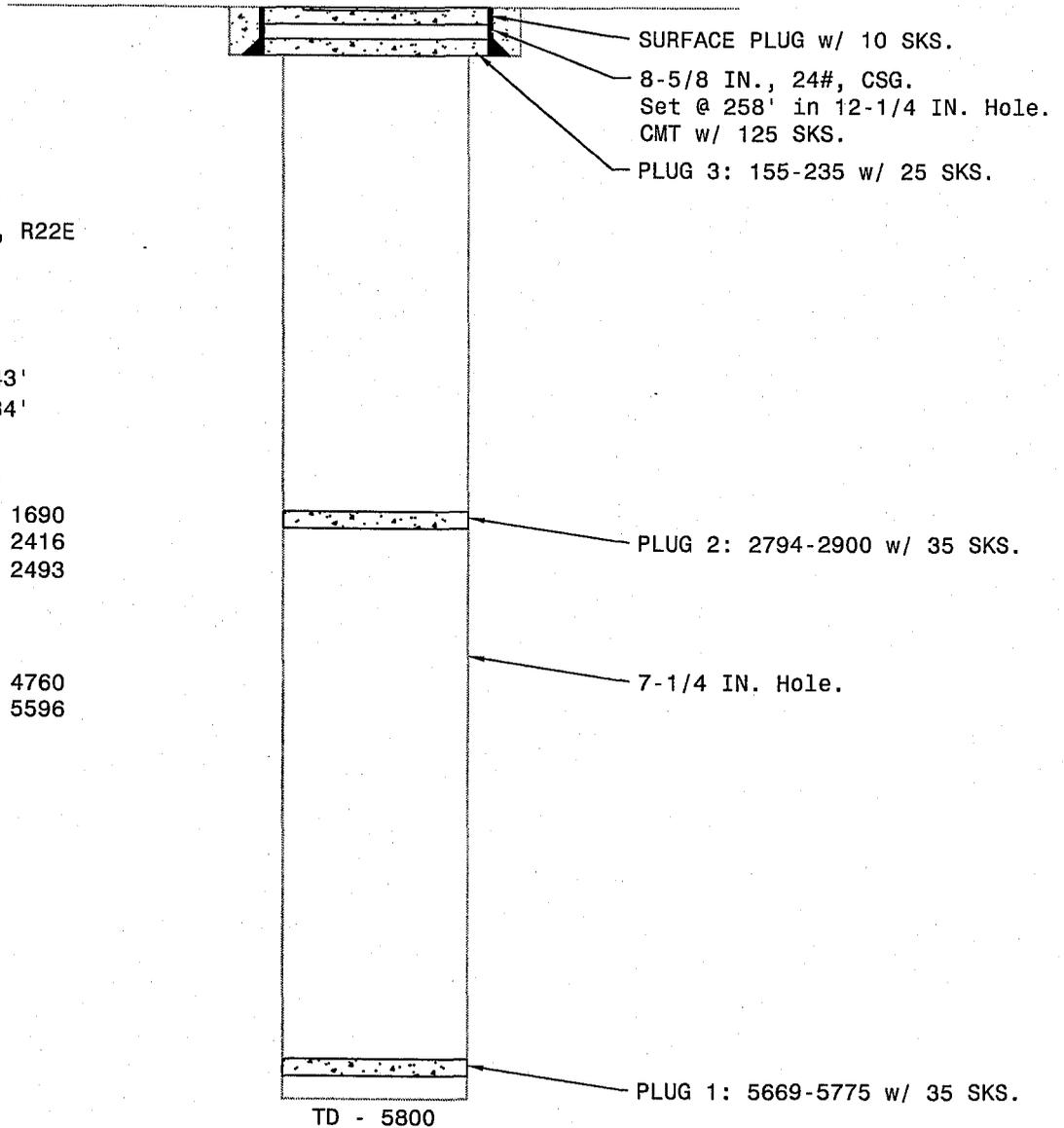
1980 FSL & 1981 FEL
 NW SE SEC. 14, T39S, R22E
 SAN JUAN COUNTY, UT

SPUD DATE: 10-5-71

ELEVATION: KB - 4743'
 GR - 4734'

FORMATION TOPS:

NAVAJO	
CHINLE	1690
SHINARUMP	2416
MOENKOPI	2493
DEHELLY	
ORGAN ROCK SHALE	
CUTLER	
HERMOSA	4760
ISMAY	5596



Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109

COWBOY #6
 API #43-037-30070
 DRILLED AND ABANDONED

SCALE: NO SCALE

DRAWN BY: SGS

COWBOY #7
API# 43-037-30325
CURRENT COMPLETION

LOCATION:

763 FNL & 746 FWL
NW NW SEC. 23, T39S, R22E
SAN JUAN COUNTY, UT

SPUD DATE: 5-17-77

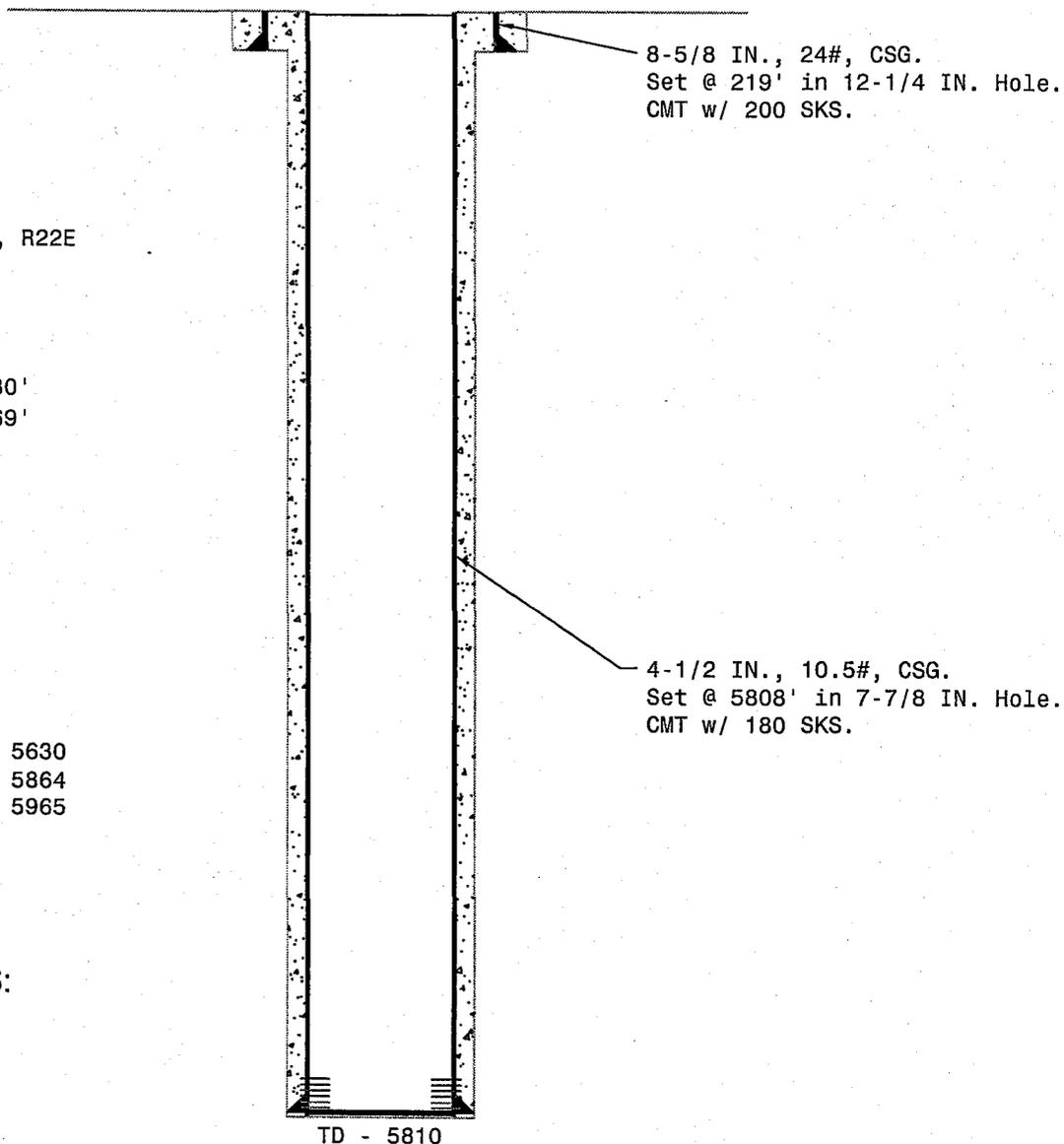
ELEVATION: KB - 4780'
GR - 4769'

FORMATION TOPS:

MORRISON	
NAVAJO	
CHINLE	
SHINARUMP	
MOENKOPI	
DEHELLY	
ORGAN ROCK SHALE	
CUTLER	
HERMOSA	
ISMAY	5630
DESERT CREEK	5864
AKAH	5965

LOWER ISMAY PERFS:

5609-5611
5635-5659
5683-5692
5727-5746
5761-5765

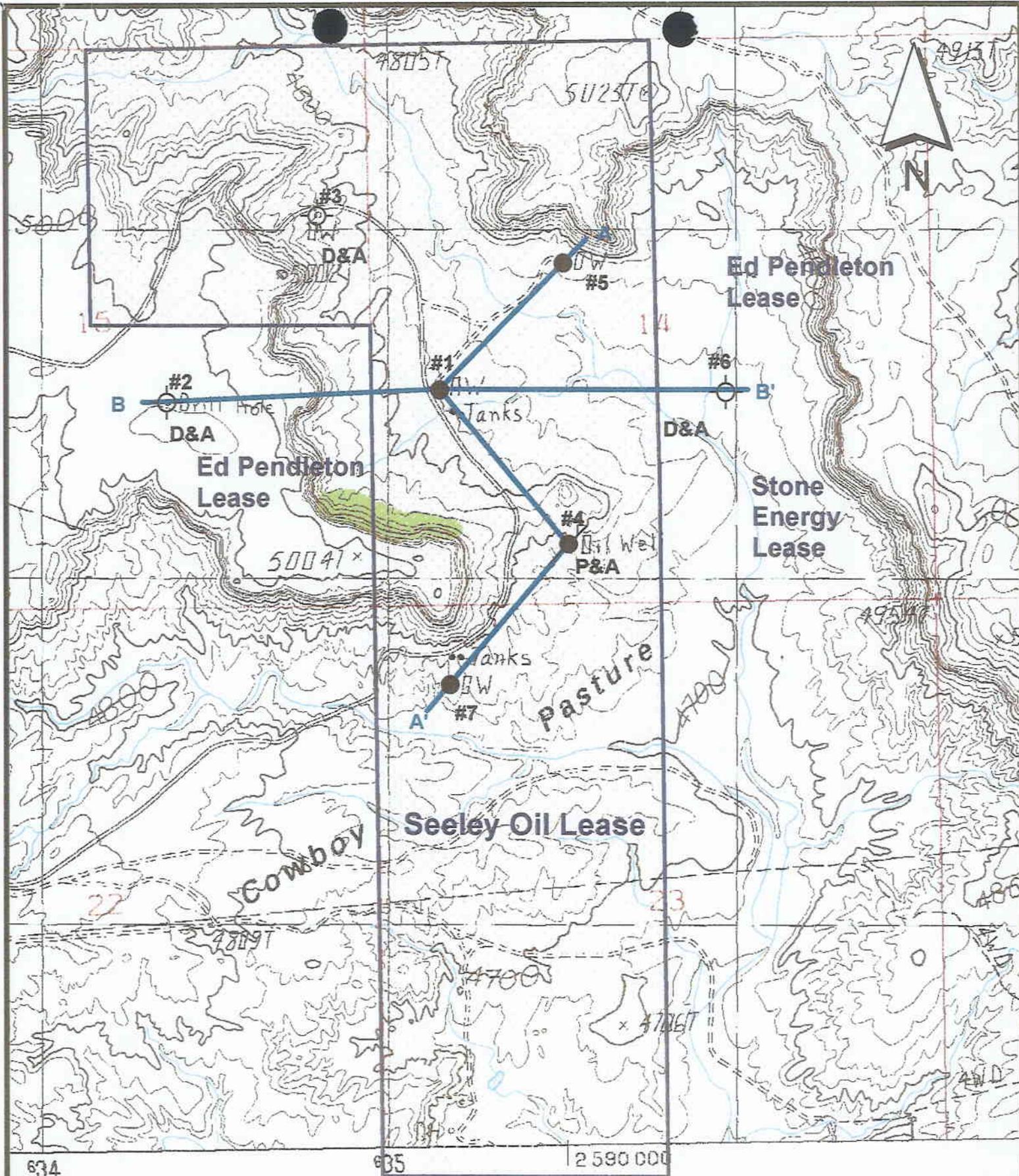


Seeley Oil Company
P.O. Box 9015
Salt Lake City, Utah 84109

COWBOY #7
API #43-037-30325
CURRENT COMPLETION

SCALE: NO SCALE

DRAWN BY: SGS



UNITED STATES GEOLOGICAL SURVEY

Cowboy Field Cross-Section Index

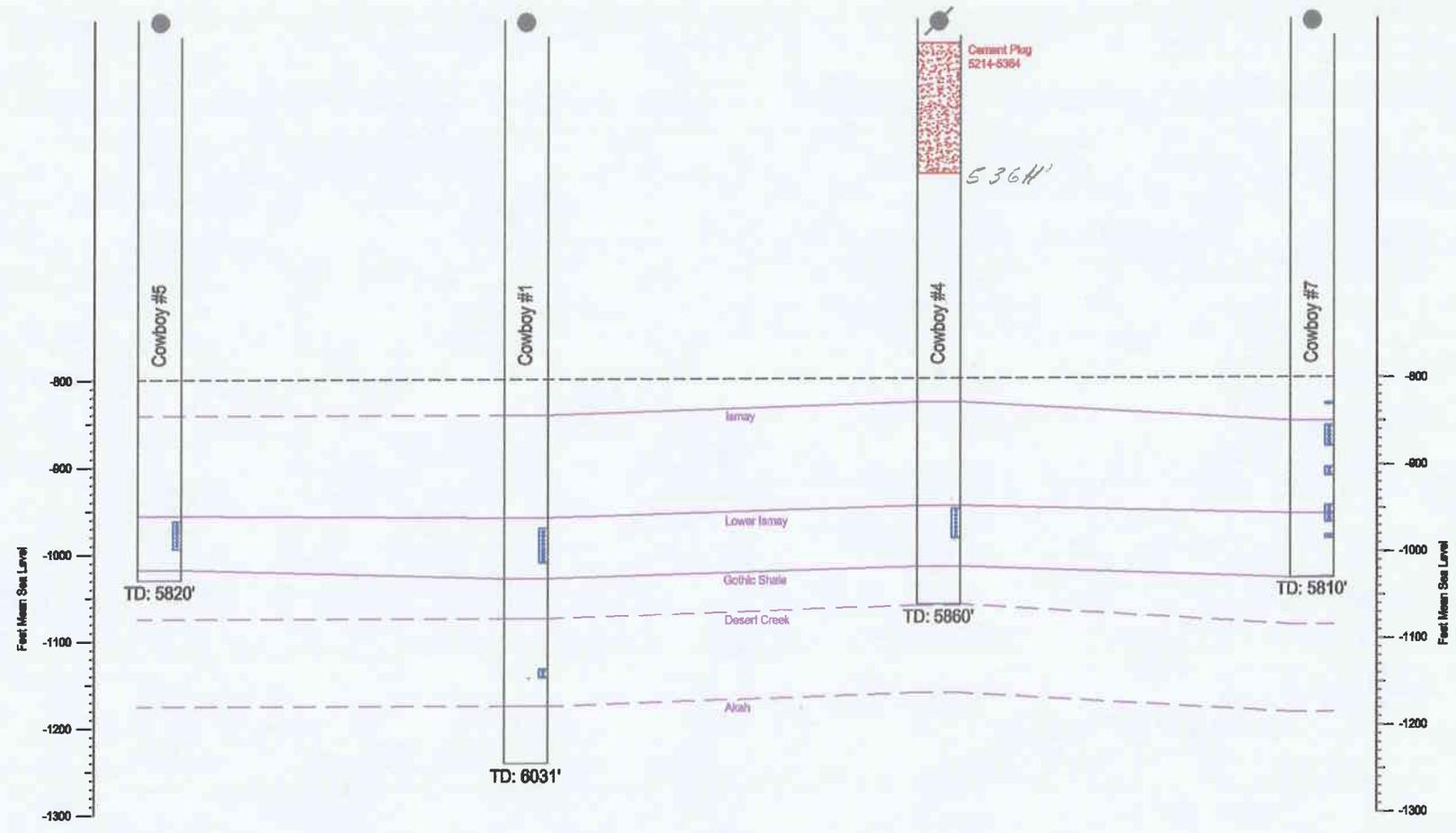
Sec. 14, T.39 S., R.22 E.
San Juan County, Utah

Seeley Oil Company

P.O. Box 9015
Salt Lake City, Utah 84109

A
North

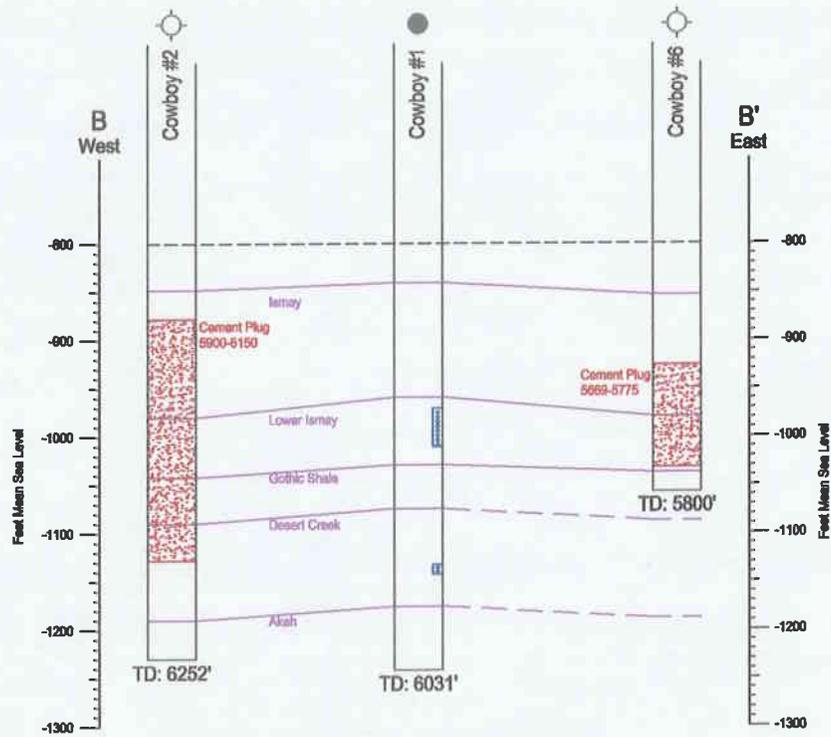
A'
South



Cowboy Field Cross-Section A-A'
Sections 14, 15, 23, T.39 S., R.22 E.
San Juan County, Utah

vert: 1 in = 200 ft
horz: 1 in = 2000 ft

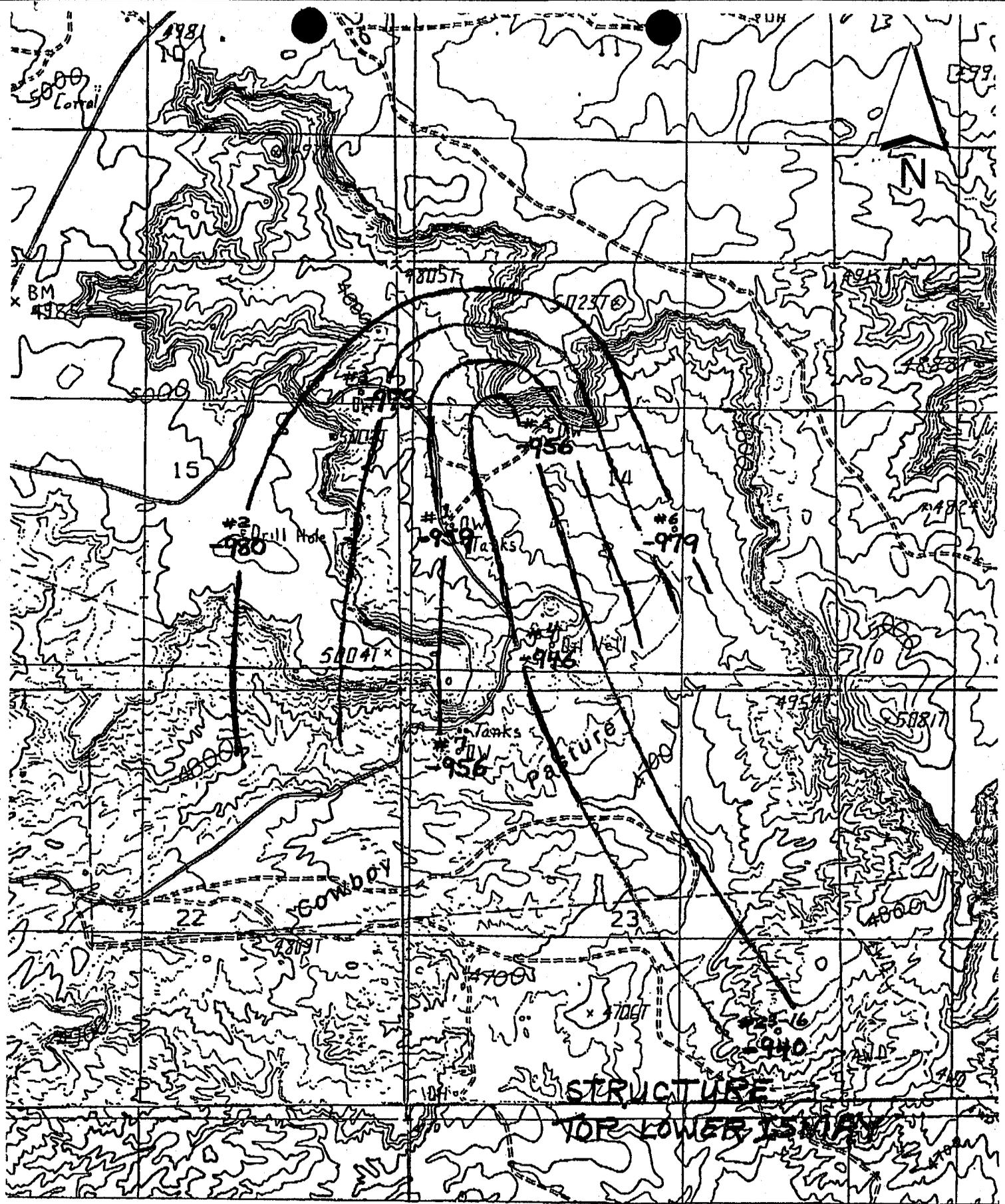
Seeley Oil Company
P.O. Box 9015
Salt Lake City, Utah 84109



Cowboy Field Cross-Section B-B'
 Sections 14, 15, 23, T.39 S., R.22 E.
 San Juan County, Utah

vert: 1 in = 200 ft
 horz: 1 in = 2000 ft

Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109



Structure Map

Top of Lower Ismay - Cowboy Field

Drawn by: B.K Seeley Jr.

Date: November 2001

Contour Interval: 10 ft.

Seeley Oil Company

P.O. Box 9015

Salt Lake City, Utah 84109

Seeley Oil Company
Volumetric Calculations Sheet

	Cowboy #1	Cowboy #4	Cowboy #5	Cowboy #7	Total
Pay Thickness (1)	33	22	7	2	
Porosity (2)	0.05	0.05	0.08	0.07	
Water Saturation (3)	0.4	0.4	0.4	0.4	
Acres	80	80	80	80	
Original Oil in Place - RB	614,434	409,622	208,535	52,134	1,284,725
Original Oil in Place - STB (4)	558,576	372,384	189,577	47,394	1,167,932
CUMULATIVE PRODUCTION					
Oil (BBL) (5)	95,381	17,617	87,922	8,972	209,892
Gas (MCF) (5)	5,840	1,267	22,179	4,349	33,635
Water (BBL) (5)	2,379	3,001	5,651	4,711	15,742
% Recovery of OOIP - STB	0.171	0.047	0.464	0.189	0.180

Notes:

- (1) Data from Seeley Oil
- (2) Average Porosity from logs
- (3) Sw from Cowboy #1 analysis
- (4) Assume 1.1 RB/STB
- (5) Production data from DOGM records

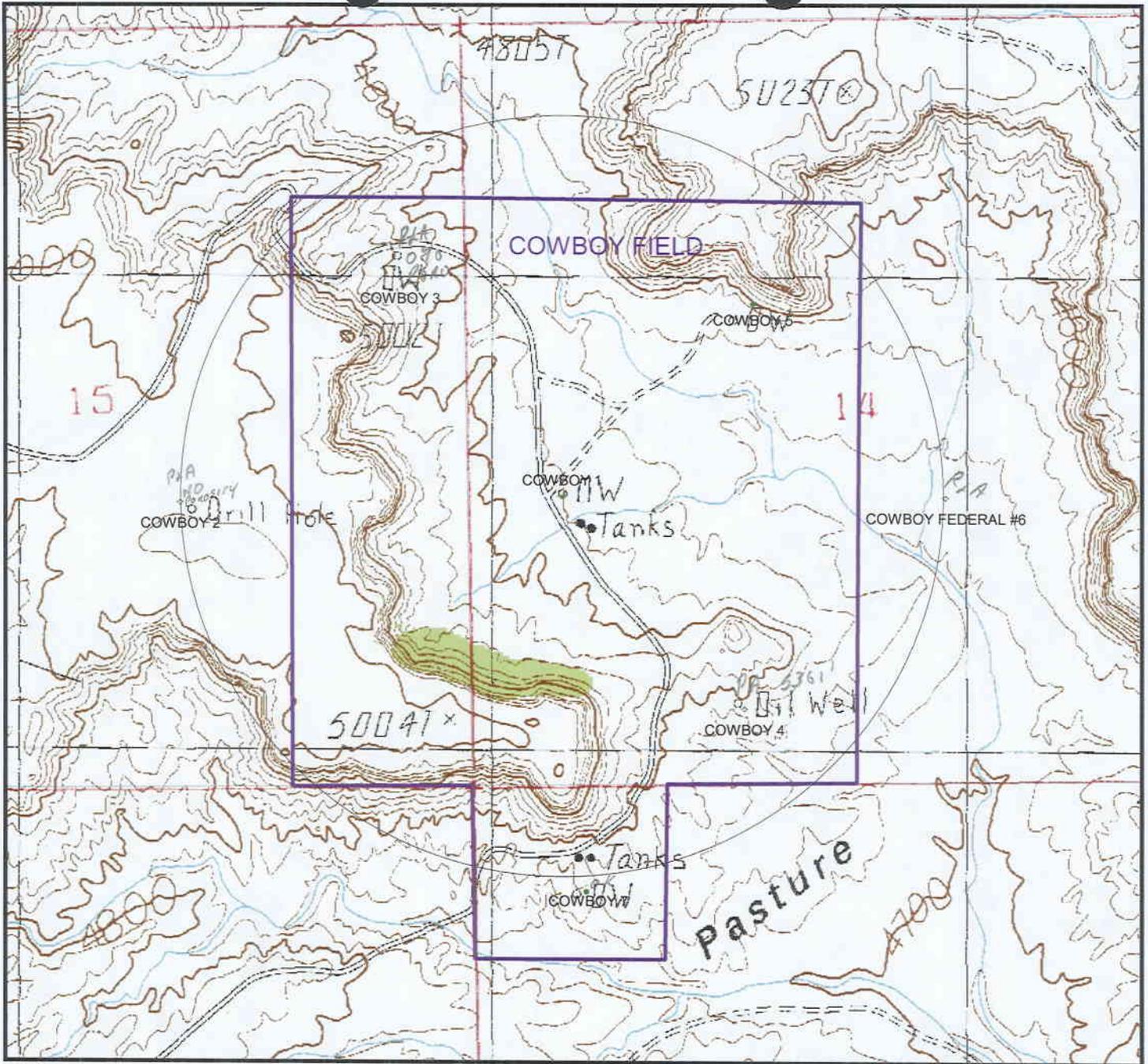
RB = Reservoir barrels
 STB = Stock tank barrels

UIC INJECTION PERMIT ANALYSIS FORM
WELL NAME: Seeley Oil, Cowboy #1 43-30012

RG49-5-2. Requirements For Class II Injection Wells Including Water Disposal, Storage And Enhanced Recovery Wells.	Completed Items, Needed Items, & Comments					
1. Injection wells shall be completed. Equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.	1. This well will be made to conform to this requirement prior to being approved.					
2. The application for an injection well shall include a properly completed UIC Form 1 and the following:	2. This requirement is being reviewed and will be complied with.					
2.1. A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.	2.1. These Plats have been provided.					
2.2. Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper, and porosity.	2.2. These Logs have been provided.					
2.3. A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.	2.3. This Log is required, and will be obtained prior to converting the well for injection. <i>DONE</i>					
2.4. Copies of logs already on file with the division should be referenced, but need not be refiled.	2.4. The Logs on file will be used and appear to be sufficient.					
2.5. A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.	2.5. This requirement has been met.					
2.6. A statement as to the type of fluid to be used for injection. its source and estimated amounts to be injected daily.	2.6. This requirement has been met.					
2.7. Standard laboratory analyses of (1) the fluid to be injected, (2) the fluid in the formation into which the fluid is being injected, and (3) the compatibility of the fluids.	2.7. A list of wells and their producing formations that the operator intends to collect water from will be required. <i>OK</i>					
2.8. The proposed average and maximum injection pressures.	2.8. Data submitted with the application is sufficient for now					
2.9. Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.	2.9. A cross section showing the injection zones and the confining layers is required, and has been requested. <i>DONE MAS O MEMOS</i>					
2.10. Appropriate geological data on the injection interval and confining beds, and nearby Underground Sources of Drinking Water, including the geologic name, lithologic description, thickness, depth, water quality, and lateral extent; also information relative to geologic structure near the proposed well which may effect the conveyance and/or storage of the injected fluids.	2.10. A structure map, cross section, and volume metrics map has been requested. <i>NOT SUBMITTED</i>					
2.11. A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals.	2.11. A review of the mechanical condition of the 6 offsetting wells has been requested, including <u>casing programs</u> , <u>bond logs</u> , <u>plugging procedures</u> , <u>cement types</u> and <u>volumes</u> . <table border="0" style="margin-left: 20px;"> <tr> <td><u>Yes</u></td> <td><u>NO</u></td> <td><u>YES</u></td> <td><u>YES</u></td> <td><u>NO</u></td> </tr> </table>	<u>Yes</u>	<u>NO</u>	<u>YES</u>	<u>YES</u>	<u>NO</u>
<u>Yes</u>	<u>NO</u>	<u>YES</u>	<u>YES</u>	<u>NO</u>		
2.12. An affidavit certifying that a copy of the application has been provided to all operators, owners and surface owners within a one-half mile radius of the proposed injection well.	2.12. Affidavits have been submitted as required.					
2.13. Any other additional information that the board or division may determine is necessary to adequately review the application.	2.13. At this time there is no other information being requested.					

OTHER COMMENTS AND OBSERVATIONS:

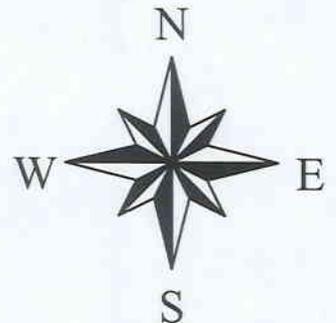
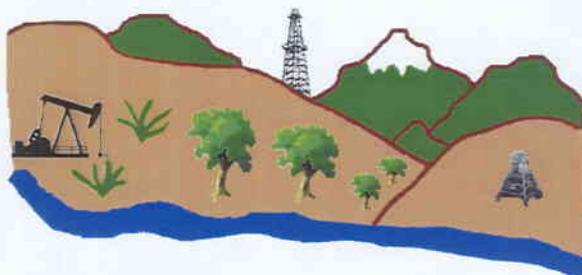
Reviewed by: K. Michael Hebertson Date: 11-December-2001



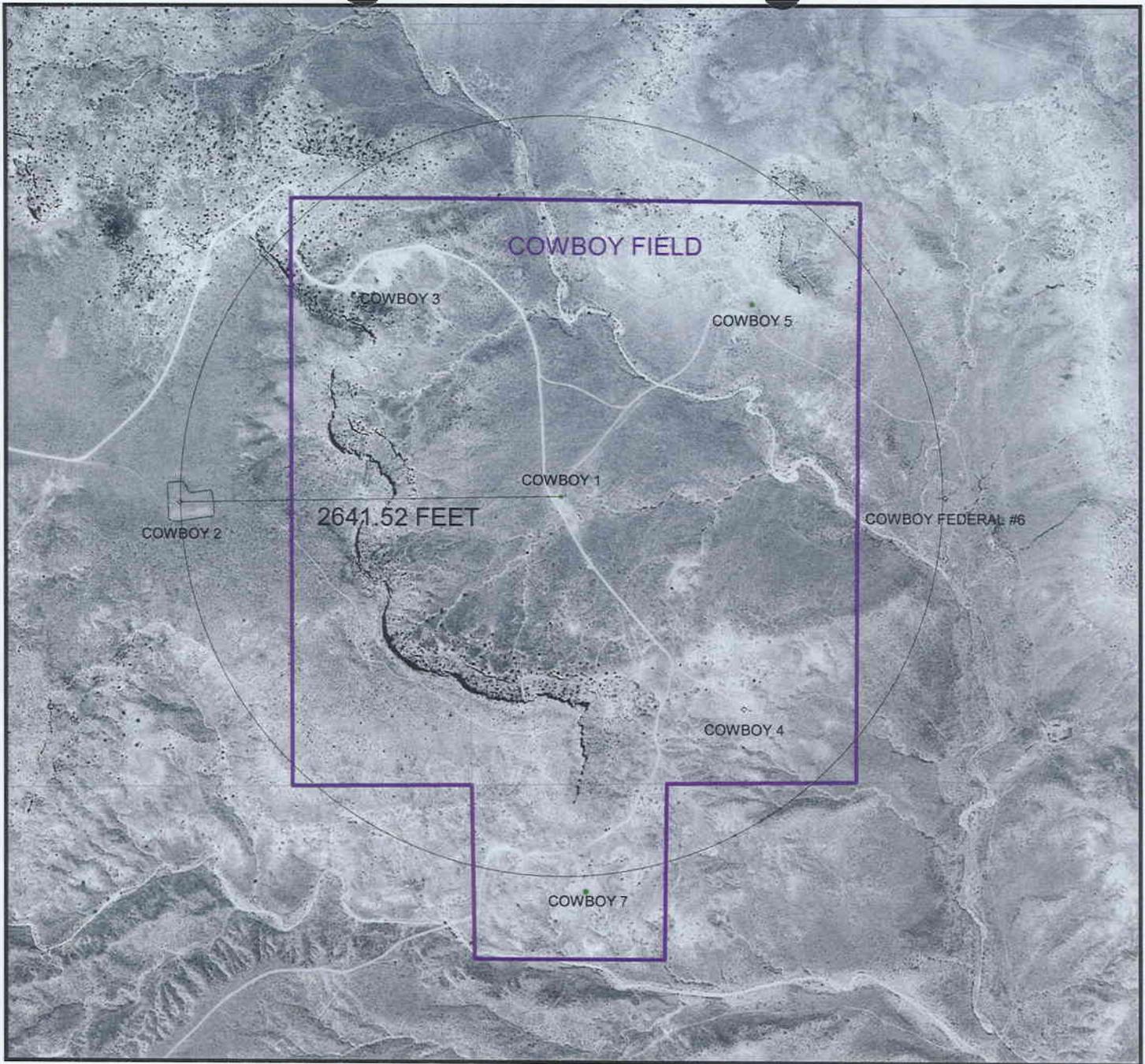
Well Status

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- ⊙ NEW LOCATION
- ◇ PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- ◇ SHUT-IN GAS
- SHUT-IN OIL
- ✕ TEMP. ABANDONED
- TEST WELL
- ▲ WATER INJECTION
- WATER SUPPLY
- ⚡ WATER DISPOSAL
- Sections
- ▭ Township

**Seeley Oil Company
Cowboy #1 Injection Well
T39S, R22E, SEC. 14
San Juan, County**



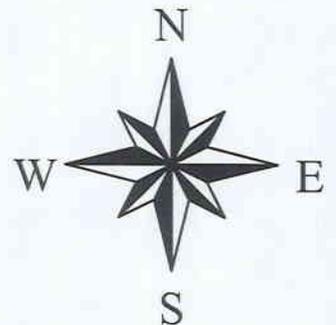
Prepared By: K. M. Hebertson



Well Status

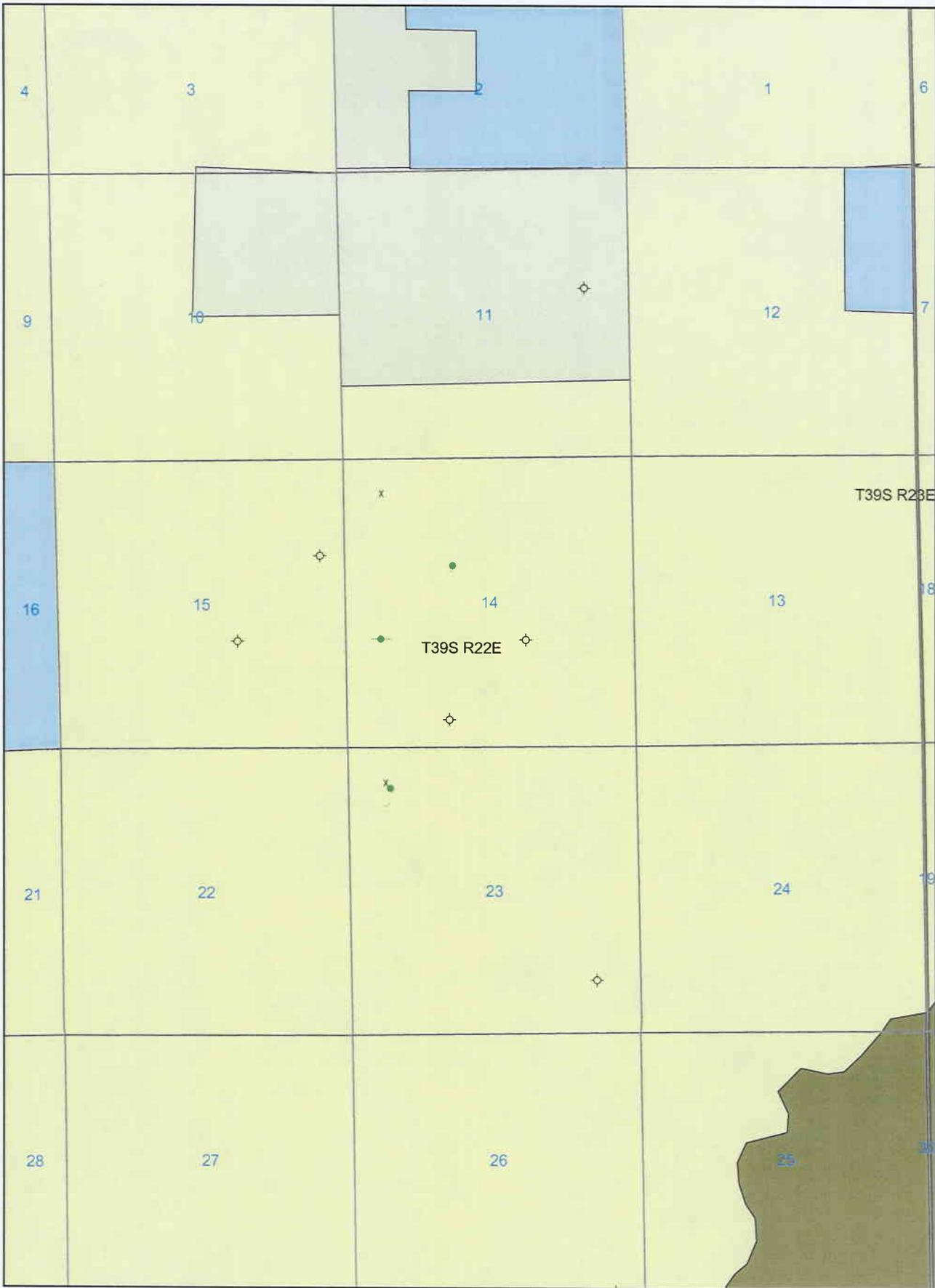
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- Sections
- Township

Seeley Oil Company
 Cowboy #1 Injection Well
 T39S, R22E, SEC. 14
 San Juan, County



Prepared By K. M. Hebertson

Utah Oil Gas and Mining



Legend

● <all other values>

WELL_TYPE

- △ GIW
- x LA
- LOC
- ◇ PA
- ☆ PGW
- POW
- ☆ SGW
- SOW
- ⊗ TA
- TW
- △ WDW
- △ WIW
- ◇ WSW

■ <all other values>

USER

- 1
- BLM
- STATE
- INDIAN
- FEE
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 39
- 40

UIC INJECTION PERMIT ANALYSIS FORM
WELL NAME: Seele Cowboy #1 43-037-30012

RG49-5-2. Requirements For Class II Injection Wells Including Water Disposal, Storage And Enhanced Recovery Wells.

Completed Items, Needed Items, & Comments

1. Injection wells shall be completed. Equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.
2. The application for an injection well shall include a properly completed UIC Form 1 and the following:
 - 2.1. A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.
 - 2.2. Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper, and porosity.
 - 2.3. A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.
 - 2.4. Copies of logs already on file with the division should be referenced, but need not be refiled.
 - 2.5. A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.
 - 2.6. A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.
 - 2.7. Standard laboratory analyses of (1) the fluid to be injected, (2) the fluid in the formation into which the fluid is being injected, and (3) the compatibility of the fluids.
 - 2.8. The proposed average and maximum injection pressures.
 - 2.9. Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.
 - 2.10. Appropriate geological data on the injection interval and confining beds, and nearby Underground Sources of Drinking Water, including the geologic name, lithologic description, thickness, depth, water quality, and lateral extent; also information relative to geologic structure near the proposed well which may effect the conveyance and/or storage of the injected fluids.
 - 2.11. A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals.
 - 2.12. An affidavit certifying that a copy of the application has been provided to all operators, owners and surface owners within a one-half mile radius of the proposed injection well.
 - 2.13. Any other additional information that the board or division may determine is necessary to adequately review the application.

1. This well will be made to conform to this requirement prior to being approved.
2. This requirement is being reviewed and will be complied with.
 - 2.1. These Plats have been provided. A BLM Right-of-Way may be required.
 - 2.2. These Logs have been provided.
 - 2.3. This Log is required, and will be obtained prior to converting the well for injection. New log run 16-Aug-2002
 - 2.4. The Logs on file will be used and appear to be sufficient.
 - 2.5. This requirement has been met.
 - 2.6. This requirement has been met.
 - 2.7. A list of wells and their producing formations that the operator intends to collect water from will be required. Not properly supplied as of 11/18/2002
 - 2.8. Data submitted with the application is sufficient for now
 - 2.9. A cross section showing the injection zones and the confining layers is required, and has been requested. The information supplied is meaningless.
 - 2.10. A structure map, cross section, and volumetrics map has been requested. The information supplied less than the requirement stipulates.
 - 2.11. A review of the mechanical condition of the 6 offsetting wells has been requested, including casing programs, bond logs, plugging procedures, cement types and volumes. Questions about these wells still exist, however injection pressures are not sufficiently high to cause problems.
 - 2.12. Affidavits have been submitted as required.
 - 2.13. At this time there is no other information being requested.

OTHER COMMENTS AND OBSERVATIONS:

Reviewed by: K. Michael Hebertson Date: 11-December-2001



Stantec

David R. Friz RG

Senior Project Geologist, Environmental Management

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www.stantec.com

Concerns of the BLM and the Division about causing any adverse impacts to the reservoir will be alleviated by restrictions and limitations on the operations of the injection well. The injection program has been restricted to cause little if any impact on the hydrocarbons left in the formation. Low injection pressure, rate, and cumulative disposable volume limitations should minimize the possibility of changing the hydrodynamics of the reservoir.

SEELEY OIL
467-6419

Bonding: *BLM bond?*

Actions Taken and Further Approvals Needed:

concession w/ steps + permit later.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): K. Michael Hebertson Date: 25 - January - 2001

DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT
STATEMENT OF BASIS**

Applicant: Seeley Oil Company **Well:** Cowboy #1

Location: Sec. 14, T 39 S, R 22 E San Juan County **API:** 43-037-30012

Ownership Issues:

Seeley Oil Company is the leaseholder the federal lease and operator of the well proposed to be converted for water disposal. The company has notified all of the surface, mineral owners, and other operators within a half-mile radius of this well, they being Ed Pendleton, Stone Energy, and the Bureau of Land Management. The notice has been published in The San Juan Record, the Salt Lake Tribune, and the Deseret News. There were no objections received concerning this proposed conversion.

Well Integrity:

The well is equipped with two strings of pipe which have been cemented in place in the following order:

Surface Casing: 537' 10 3/4", 32.75 lb/Ft , Cemented to surface with 375 sacks of cement.

Production Casing: 6031' 5 1/2", 17Lb/Ft plugged back to 5992'. Cemented with 477 sacks of cement in a 7 7/8" hole. To fill the annular volume as suggested in the submitted drawing, the yield per sack of cement, with no excess or washouts calculated, would need to be 2.189 cubic feet per sack. A Cement Bond Log will be required.

Ground Water Protection:

The geology for this location indicates that the Navajo formation is the most likely candidate in this locality to be a source of underground drinking water. The Navajo was encountered at either 721' or 748' in this well as reported in two separate documents, and no water was reported in the entire interval down to the top of the Chinle at 1,746' or 1,740' as reported in two separate documents. No water was reported as encountered in any of near surface sands while drilling. In the day and time that this well was drilled the concern for protection of near

surface waters was not as pertinent to completion as is the case now. Seeley Oil will be running a bond log on this well to prove cement tops and isolation of the possible fresh water zones. The base of the moderately saline ground waters in this area should be about 2,700', in the Chinle Formation, as projected from the generalized map found in technical publication No. 94, Base Of Moderately Saline Ground Water In San Juan County, Utah. Other possible aquifers are the Entrada, and Carmel above the Navajo, and the Kayenta, Moenave, Wingate, Chinle, Moenkopi, Cutler Group, and Rico below the Navajo. However, locally, the quality of the water below Township 35 South is moderately saline to briny in the Navajo, Entrada and Carmel formations.

Six aquifer systems have been described in San Juan County, and all of the rock formations in the county contain water to some degree. From oldest to youngest the aquifer groups are the Redwall, consisting of the Leadville Limestone, Molas, and Pinkerton Trail Formations. The P Aquifer, consisting of the Rico, Honaker Trail, and Hermosa Group. C Aquifer, consists of the DeChelly Sand of the Cutler Group, and is generally present only south of the San Juan River. The N Aquifer, made up of the Wingate Sandstone, the Kayenta Formation, the Navajo Sandstone, the Carmel Formation, and the Entrada Formation. The Navajo portion of this group can yield up to 170 gallons per minute of water. The M Aquifer, consisting of the Bluff Sandstone, Salt Wash, Recapture and Westwater Members of the Morrison Formation. The D Aquifer, consists of the Burro Canyon Formation and the Dakota Sandstone. This aquifer is not a consideration for this location as it is not present.

The Navajo Sandstone formation water quality at the subject well was not tested at the time of drilling and no water flows were reported during the drilling phase of this well. It is therefore unknown what the actual aquifer water quality at this location is.

Within 20,000 feet of the injection well there are 12 points of diversion ranging from active springs and underground wells to surface diversions. Five of the twelve diversions are wells completed in the Navajo section between 300 and 1350 feet deep, and ranging in distance from the proposed well between 2,700' and 9,700'. The nearest point of diversion is a well that is 2,700 feet to the southwest. It is a 6" pipe of unknown depth and flows .015 CFS. It is possible that cement does not cover the fresh water aquifer of the Navajo, should the cement above the injection zone fail, fluids could migrate up the wellbore to this zone. It is not expected that this would occur and injection pressures will be limited very low in this well, which lowers the risk of this ever happening. An explanation of the pressure limitations will be undertaken herein. A CBL will be requested to

verify containment and the need for any remedial work.

The intended zones of injection are the Ismay and Desert Creek members of the Paradox Formation. This is a structural feature known as an algal mound and is its own contained reservoir. It has been voided, by production of Oil, Gas and Water, of a percentage of its original volume. The volume withdrawn from this structure is approximately 230,000 barrels equivalent of total fluids. The original Oil in place is calculated to be 1,167,932 stock tank barrels. Accordingly some 20% of the original Oil in place has been recovered. The well is now on vacuum and produces no Oil, Water, or Gas. The injection pressures applied for were reduced so as not to exceed the original hydrostatic pressure at the time that the well was drilled. By limiting the injection pressure and the amount of fluid disposed of, containment of the fluids should remain within the algal reservoir.

A step-rate test for this well will not be necessary, as there is no pressure currently on the formation in the intended injection zone. The well will be limited to 500 psig surface, a rate not to exceed 250 BBLS on any day, and something less than 250,000 BBLS of total injected fluid. Bottomhole pressure is calculated from the pressures gathered at the time DST #2 was run while the well was drilling. The initial hydrostatic pressure was 2,956 PSI and final hydrostatic pressure was 2,946 PSI.

The maximum surface pressure will be 500 psig. This translates to less than original hydrostatic downhole pressure. The volume being replaced will be less than the volume extracted

The water to be disposed of in this well will be produced water from other Ismay and Desert Creek production wells in the area. A water sample from the Cowboy #1 Treater was analyzed for Total Dissolved Solids and showed 50,935 mg/L. This is well over the <10,000 mg/L for USDW qualification. Other examples of water that will be injected are over 20,000 mg/L, and may need to be treated for possible scaling problems in order to be compatible.

At the date of this writing there is no reliable bond log for this well and the actual mechanical properties of this well cannot be fully analyzed until one is provided.

Oil/Gas & Other Mineral Resources Protection:

The hydrocarbon and mineral resources at this location consist of the Ismay and Desert Creek Members of the Paradox Formation. These two zones have been produced and partially depleted leaving a void space that the operator wishes to refill with water from other more profitable wells in the area.

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
RIGHT-OF-WAY GRANT**

SERIAL NUMBER UTU-80214

1. A right-of-way is hereby granted pursuant to Title V of the Federal Land Policy and Management Act of October 21, 1976 (90 Stat. 2776; 43 U.S.C. 1761).

2. Nature of Interest:

a. By this instrument, the holder:

Seeley Oil Company LLC
c/o B. K. Seeley
P.O. Box 9015
Salt Lake City, Utah 84019

receives a right to construct, operate, maintain, and terminate a water injection facility on public lands described as follows:

Salt Lake Meridian

T. 39 S., R. 22 E., Section 14
NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$

b. The right-of-way area granted herein is 50' wide, 50' long and contains 0.06 acres, more or less.

c. This instrument shall terminate 30 years from its effective date unless prior thereto, it is relinquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.

d. This instrument may be renewed. If renewed, the right-of-way shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the authorized officer deems necessary to protect the public interest.

e. Notwithstanding the expiration of this instrument or any renewal thereof, early relinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of the expiration, or prior termination, of the grant.

3. Rental:

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted by the authorized officer, whenever necessary, to reflect changes in the fair market rental value as determined by the application of sound business management principles, and so far as practicable and feasible, in accordance with comparable commercial practices. Rental payments, if applicable, should be made payable to U. S. Department of Interior, BLM, and mailed to the following address:

Bureau of Land Management
435 North Main, P. O. Box 7
Monticello, Utah 84535

4. Terms and Conditions:

- a. This grant or permit is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations part 2800.
- b. Upon grant termination by the authorized officer, all improvements shall be removed from the public lands within 90 days, or otherwise disposed of as provided in paragraph (4)(d) or as directed by the authorized officer.
- c. Each grant issued for a term of 20 years or more shall, at a minimum, be reviewed by the authorized officer at the end of the 20th year and at regular intervals thereafter not to exceed 10 years. Provided, however, that a right-of-way or permit granted herein may be reviewed at any time deemed necessary by the authorized officer.
- d. The stipulations, plans, maps, or designs set forth in Exhibit A, attached hereto, are incorporated into and made a part of this grant instrument as fully and effectively as if they were set forth herein in their entirety.
- e. Failure of the holder to comply with applicable law or any provision of this right-of-way grant or permit shall constitute grounds for suspension or termination thereof.
- f. The holder shall perform all operations in a good and workmanlike manner so as to ensure protection of the environment and the health and safety of the public.
- g. The holder shall construct, operate, and maintain the facilities, improvements, and structures within this right-of-way in strict conformity with the plan of development which was submitted with the application on February 18, 2003. Any relocation, additional construction, or use that is not in accord with the approved plan of development shall not be initiated without the prior written approval of the authorized officer. Noncompliance with the above will be grounds for an immediate temporary suspension of activities if it constitutes a threat to public health and safety or the environment.

- h. The holder shall conduct all activities associated with the construction, operation, and termination of the right-of-way within the authorized limits of the right-of-way.
- i. The holder of this right-of-way grant or the holder's successor in interest shall comply with Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d et seq.) and the regulations of the Secretary of Interior issued pursuant thereto.
- j. The holder shall contact the authorized officer at least seven (7) days prior to the anticipated start of construction and/or any surface disturbing activities.
- k. The holder shall comply with applicable Federal and State laws and regulations concerning the uses of pesticides (i.e. insecticides, herbicides and other similar substances) in all activities and operations under this grant. A pesticide use proposal shall be submitted to the authorized officer for approval prior to application.
- l. In conjunction with right-of-way UTU-80214, the holder shall provide a bond in the amount of twenty thousand dollars (\$20,000) prior to final approval of the right-of-way grant. The bond shall be maintained in effect until the well is plugged, all improvements from public lands have been removed, and restoration of the right-of-way has been accepted by the authorized officer.
- m. The holder agrees that all monies deposited with the authorized officer as security for holder's performance of the terms and conditions of this grant may, upon failure on the holder's part to fulfill any of the requirements herein set forth or made a part hereof, be retained by the United States to be applied as far as may be needed to the satisfaction of the holder's obligation assumed hereunder, without prejudice whatever to any other rights and remedies of the United States.
- n. All water shall be accurately measured prior to being disposed down the wellbore. Daily disposal volumes shall be reported to the Bureau of Land Management, Monticello Field Officer, on a monthly basis.
- o. All equipment must be in functional condition, and all measuring devices shall be properly calibrated and sealed.
- p. All records and reports as a result of the operation of the injection well shall be maintained for six years from the date they were generated.
- q. If during any phase of the construction, operation, or termination of the disposal well or related facilities any oil or other pollutant should be discharged from the system, or from containers or vehicles impacting public lands, the control and total removal, disposal, and cleanup of such oil or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of holder to control, cleanup, or dispose of such discharge on or affecting public lands, or to repair all damages to public lands resulting therefrom, the authorized officer may take such measures as he deems necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the authorized officer shall not relieve the holder of any liability or responsibility.

- r. The authorized officer of the BLM, Monticello Field Office, shall be notified within 24 hours of any unauthorized discharge of oil or other pollutant.
- s. Plugging instructions must be obtained from the Monticello Field Office a minimum of 48 hours prior to initiating plugging operations. The plugging must be witnessed by BLM personnel. Plugging must ensure the long term protection of all potential water aquifers and any potential mineral zones. A subsequent report of abandonment shall be filed with the Monticello Field Office within 30 days following abandonment. The report will document specifics of plug placement and down hole conditions.
- t. Upon relinquishment of the right-of-way, the holder will remove surfacing material (i.e. gravel, roadbase) and recontour disturbed areas or designated sections of the right-of-way by grading or by adding topsoil, to restore the site to approximately the original contour of the ground as determined by the authorized officer.
- u. The holder shall seed all disturbed areas, using an agreed upon method suitable for the location. Seeding shall be repeated if a satisfactory stand is not obtained as determined by the authorizing officer upon evaluation after the second growing season.

IN WITNESS WHEREOF, The undersigned agrees to the terms and conditions of this right-of-way grant or permit.

(Signature of Holder)

(Signature of Authorized Officer)

(Title)

Field Office Manager

(Title)

(Date)

(Date)

Brad
Mike

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

---ooOoo---

IN THE MATTER OF THE	:	NOTICE OF AGENCY ACTION
APPLICATION OF SEELEY OIL	:	
COMPANY FOR ADMINISTRATIVE	:	CAUSE NO. UIC-285
APPROVAL OF THE COWBOY #1	:	
WELL LOCATED IN SECTION 14,	:	
TOWNSHIP 39 SOUTH, RANGE 22	:	
EAST, S.L.M., SAN JUAN COUNTY,	:	
UTAH, AS A CLASS II INJECTION	:	
WELL	:	

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

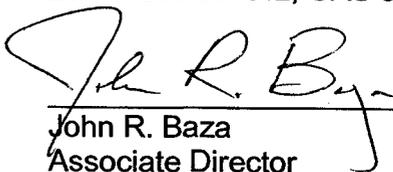
Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Seeley Oil Company, for administrative approval of the Cowboy #1 well, located in Section 14, Township 39 South, Range 22 East, San Juan County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

The interval from 5,768 feet to 5,800 feet (Lower Ismay Formation), and 5,922 feet to 5,932 feet (Desert Creek Formation), The maximum requested injection pressure and maximum rate of injection will be determined from information gathered during completion of the well.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rules. Protestants and/or intervener should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 8th day of January, 2002.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING



 John R. Baza
 Associate Director

**Seeley Oil Company
Cowboy #1
Cause No. UIC-285**

Publication Notices were sent to the following:

Seeley Oil Company
P.O. Box 9015
Salt Lake City, Utah 84109

(Via E-Mail and Facsimile 237-2577)
Newspaper Agency Corporation
Legal Advertising
PO Box 45838
Salt Lake City, Utah 84145

(via e-mail and Facsimile 435 587-2277)
San Juan Record
PO Box 879
Monticello, UT 84535-0879

Bureau of Land Management
Moab District Office
82 East Dogwood
Moab, Utah 84532

Dan Jackson
U.S. Environmental Protection Agency
Region VIII
999 18th Street
Denver, Colorado 80202-2466



Earlene Russell
January 8, 2002

Earlene Russell - Re: UIC 285

From: "NAC LEGAL" <naclegal@nacorp.com>
To: "Earlene Russell" <erussell.nrogm@state.ut.us>
Date: 01/08/2002 11:49 AM
Subject: Re: UIC 285

Ad is set for Friday, Jan. 11.
Thanks.

----- Original Message -----

From: Earlene Russell
To: naclegal@nacorp.com
Sent: Tuesday, January 08, 2002 11:18 AM
Subject: UIC 285

Please notify me of publishing date. Thanks.

ER

TRANSACTION REPORT

P. 01

JAN-08-2002 TUE 11:17 AM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
JAN-08	11:16 AM	2372776	42"	2	SEND	OK	363	
TOTAL :						42S	PAGES:	2



State of Utah
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
 Governor
 Kathleen Clarke
 Executive Director
 Lowell P. Braxton
 Division Director

1594 West North Temple, Suite 1210
 PO Box 145801
 Salt Lake City, Utah 84114-5801
 801-538-5340
 801-359-3940 (Fax)
 801-538-7223 (TDD)

January 8, 2002

SENT VIA E-MAIL AND FAX (801) 237-2776

Salt Lake Tribune
 PO Box 45838
 Salt Lake City, UT 84145

RE: Notice of Agency Action - Cause No. UIC 285

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

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January 8, 2002

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Salt Lake Tribune
PO Box 45838
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Sincerely,

A handwritten signature in cursive script that reads "Earlene Russell".

Earlene Russell
Secretary

encl.

TRANSACTION REPORT

P. 01

JAN-08-2002 TUE 11:16 AM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
JAN-08	11:15 AM	14355872277	59"	2	SEND	OK	362	
TOTAL :						59S	PAGES:	2



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

January 8, 2002

SENT VIA E-MAIL AND FAX (435) 587-2277

San Juan Record
PO Box 879
Monticello, UT 84535-0879

RE: Notice of Agency Action - Cause No. UIC 285

Gentlemen:

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Sincerely,



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

January 8, 2002

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San Juan Record
PO Box 879
Monticello, UT 84535-0879

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Sincerely,

A handwritten signature in cursive script that reads "Earlene Russell".

Earlene Russell
Secretary

encl.

143 SOUTH MAIN ST.
P.O. BOX 45838
SALT LAKE CITY, UTAH 84145
FED. TAX I.D. # 87-0217663

Newspaper Agency Corporation

The Salt Lake Tribune  DESERET NEWS

Brad

CUSTOMER'S COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	D5385340L-07	01/11/02

ACCOUNT NAME	
DIV OF OIL-GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8201G2KD1
SCHEDULE	
START 01/11/02 END 01/11/02	
CUST. REF. NO.	
UIC 285	
CAPTION	
BEFORE THE DIVISION OF OIL, GA	
SIZE	
55 LINES 2.00 COLUMN	
TIMES	RATE
1	1.64
MISC. CHARGES	AD CHARGES
.00	180.40
TOTAL COST	
180.40	

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

---ooOoo---

IN THE MATTER OF THE APPLICATION OF SEELEY OIL COMPANY FOR ADMINISTRATIVE APPROVAL OF THE COWBOY #1 WELL LOCATED IN SECTION 14, TOWNSHIP 39 SOUTH, RANGE 22 EAST, S.L.M., SAN JUAN COUNTY, UTAH, AS A CLASS II INJECTION WELL

: NOTICE OF AGENCY ACTION
: CAUSE NO. UIC-285

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Seeley Oil Company, for administrative approval of the Cowboy #1 well, located in Section 14, Township 39 South, Range 22 East, San Juan County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

The interval from 5,768 feet to 5,800 feet (Lower Ismay Formation), and 5,922 feet to 5,932 feet (Desert Creek Formation). The maximum requested injection pressure and maximum rate of injection will be determined from information gathered during completion of the well.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 8th day of January, 2002.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
/s/ John R. Baza
Associate Director

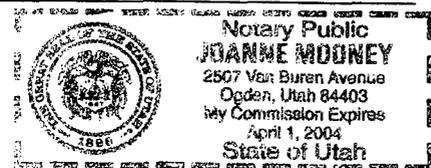
8201G2KD

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GA DIV OF OIL-GAS & MINING WAS PUBLISHED BY THE CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON _____ START 01/11/02 END 01/11/02

SIGNATURE _____
DATE 01/11/02



THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT.

Public notice

BEFORE THE DIVISION OF OIL,
GAS AND MINING

DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF
SEELEY OIL COMPANY FOR ADMINIS-
TRATIVE APPROVAL OF THE COWBOY #1
WELL LOCATED IN SECTION 14, TOWNSHIP
39 SOUTH, RANGE 22 EAST, S.L.M., SAN
JUAN COUNTY, UTAH, AS A CLASS II INJEC-
TION WELL

NOTICE OF AGENCY ACTION
CAUSE NO. UIC-285

THE STATE OF UTAH TO ALL PERSONS
INTERESTED IN THE ABOVE ENTITLED MAT-
TER

Notice is hereby given that the Division of Oil,
Gas and Mining (the "Division") is commencing
an informal adjudicative proceeding to consider the
application of Seeley Oil Company, for adminis-
trative approval of the Cowboy #1 well, located in
Section 14, Township 39 South, Range 22 East,
San Juan County, Utah, for conversion to a Class
II injection well. The proceeding will be conducted
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istrative Procedures.

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ministrative procedure rules. Protestants and/or
intervener should be prepared to demonstrate at
the hearing how this matter affects their inter-
ests.

Dated this 8th day of January, 2002.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
s/ John R. Baza
Associate Director

Published January 16, 2002 in the San Juan
Record, Monticello, Utah.

AFFIDAVIT OF PUBLICATION

Brad
Mike

I, William Webster Boyle, being duly sworn, depose and say that I am the
publisher of **The San Juan Record**, a weekly newspaper of general
circulation published at Monticello, Utah every Wednesday; that notice of
agency action, a copy of which is hereunto attached, was published in
the regular and entire issue of each number of said newspaper for one
issue, on January 16, 2002.

Bill Boyle

Bill Boyle, Publisher

Subscribed and sworn to before me this 16 day of January A.D.
2002.

Terry Cramer

Notary Public residing at Monticello, Utah
My commission expires December 12, 2002

Public notice

BEFORE THE DIVISION OF OIL,
GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH
IN THE MATTER OF THE APPLICATION OF
SEELEY OIL COMPANY FOR ADMINIS-
TRATIVE APPROVAL OF THE COWBOY #1
WELL LOCATED IN SECTION 14, TOWNSHIP
39 SOUTH, RANGE 22 EAST, S.L.M., SAN
JUAN COUNTY, UTAH, AS A CLASS II INJEC-
TION WELL
NOTICE OF AGENCY ACTION
CAUSE NO. UIC-285
THE STATE OF UTAH TO ALL PERSONS
INTERESTED IN THE ABOVE ENTITLED MAT-
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Dated this 8th day of January, 2002.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
s/ John R. Baza
Associate Director

Published January 16, 2002 in the San Juan
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Bill Boyle

Bill Boyle, Publisher

Subscribed and sworn to before me this 16 day of January A.D.
2002.

Terry Cramer

Notary Public residing at Monticello, Utah
My commission expires December 12, 2002

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

143 SOUTH MAIN ST.
P.O. BOX 45838
SALT LAKE CITY, UTAH 84145
FED. TAX I. D. # 87-0217663

Newspaper Agency Corporation
The Salt Lake Tribune  DESERET NEWS

CUSTOMER'S
COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	D5385340L-07	01/11/02

ACCOUNT NAME	
DIV OF OIL-GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8201G2KD1
SCHEDULE	
START 01/11/02 END 01/11/02	
CUST. REF. NO.	
UIC 285	
CAPTION	
BEFORE THE DIVISION OF OIL, GA	
SIZE	
55 LINES 2.00 COLUMN	
TIMES	RATE
1	1.64
MISC. CHARGES	AD CHARGES
.00	180.40
TOTAL COST	
180.40	

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

---ooOoo---

IN THE MATTER OF THE :
APPLICATION OF SEELEY OIL : NOTICE OF AGENCY
COMPANY FOR ADMINISTRATIVE : ACTION
APPROVAL OF THE COWBOY #1 : CAUSE NO. UIC-285
WELL LOCATED IN SECTION 14 :
TOWNSHIP 39 SOUTH, RANGE 22 :
EAST, S.L.M., SAN JUAN COUNTY, :
UTAH, AS A CLASS II INJECTION :
WELL

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE
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Administrative Procedures.

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pressure and maximum rate of injection will be deter-
mined from information gathered during completion of
the well.

Any person desiring to object to the application or
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protest or notice of intervention with the Division within
fifteen days following publication of this notice. If such
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will be scheduled in accordance with the aforementioned
administrative procedure rules. Protestants and/or in-
terveners should be prepared to demonstrate at the
hearing how this matter affects their interests.

Dated this 8th day of January, 2002.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
/s/ John R. Baza
Associate Director

8201G2KD

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY
ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GA
DIV OF OIL-GAS & MINING WAS PUBLISHED BY
CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET
PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION
IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON START 01/11/02 END 01/11/02

SIGNATURE *John R. Baza*
DATE 01/11/02

**THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT.**

143 SOUTH MAIN ST.
 P.O. BOX 45838
 SALT LAKE CITY, UTAH 84145
 FED. TAX I.D.# 87-0217663

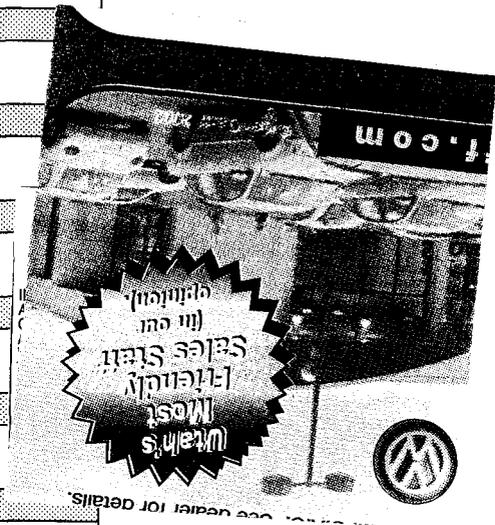
Newspaper Agency Corporation
 The Salt Lake Tribune  DESERET NEWS

CUSTOMER'S
 COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	D5385340L-07	01/11/02

ACCOUNT NAME	
DIV OF OIL-GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8201G2KD1
SCHEDULE	
START 01/11/02 END 01/11/02	
CUST. REF. NO.	
UIC 285	
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BEFORE THE DIVISION OF OIL, GA	
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TIMES	RATE
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MISC. CHARGES	AD CHARGES
.00	180.40
TOTAL COST	
180.40	



AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GA FOR DIV OF OIL-GAS & MINING WAS PUBLISHED BY THE NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON START 01/11/02 END 01/11/02

SIGNATURE *Janice King*

DATE 01/11/02



THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT.

Stantec Consulting Inc.
3995 South 700 East Suite 300
Salt Lake City UT 84107
Tel: (801) 261-0090 Fax: (801) 266-1671
stantec.com

BH
MH



Stantec

January 9, 2002

Mr. Mike Hebertson
Utah Division of Oil, Gas, and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Reason to Convert Producing Well to Injection Well
Seeley Oil Company Cowboy #1
NW SW of Section 14, Township 39 South, Range 22 East
San Juan County, Utah

Dear Mr. Hebertson:

In response to your request of January 8, 2002, Stantec Consulting offers the following explanation why Seeley Oil Company desires to convert the Cowboy #1 from producing well to injection well. The primary purpose is to utilize the Cowboy # 1 as a water disposal well.

Currently, in the vicinity of the Cowboy Oil Field, there is only one facility where operators may dispose produced water. Disposal costs have been increasing. If Seeley Oil can dispose its produced water in its own injection well, Seeley Oil can realize production cost savings. In addition, if Seeley Oil disposes produced water from other nearby operators, there is the potential for additional revenue.

Buildings

Environment

Industrial

Transportation

Urban Land

For questions or comments, please contact me at 801-261-0090, or Mr. Kim Seeley at 801-467-6419.

Sincerely,

Stantec Consulting Inc.

David R. Friz
David R. Friz, R.G.
Senior Project Geologist

cc: B. K. Seeley, Jr. – Seeley Oil Company
Brad Hill – Utah Division of Oil, Gas, and Mining

RECEIVED

JAN 14 2002

DIVISION OF
OIL, GAS AND MINING

Stantec Consulting Inc.
3995 South 700 East Suite 300
Salt Lake City UT 84107
Tel: (801) 261-0090 Fax: (801) 266-1671
stantec.com



Stantec

January 11, 2002

Mr. Dan Jackson
United States Environmental Protection Agency, Region 8
999 18th Street, Suite 300 P-W-GW
Denver, CO 80202-2466

RE: Application for Injection Well – UIC Form 1
Seeley Oil Company Cowboy #1
NW SW of Section 14, Township 39 South, Range 22 East
San Juan County, Utah

Dear Mr. Jackson:

As required by the State of Utah Oil and Gas Conservation regulations, R649-5-2.2.12, the enclosed permit application, for the proposed captioned well, must be provided to all operators, owners, and surface owners located within a one-half mile radius of exposure.

If you have any questions in regards to this notice, please call me at (801) 261-0090, Mr. Kim Seeley at (801) 467-6419, or Mr. Mike Hebertson (Utah Division of Oil, Gas, and Mining) at (801) 538-5333.

Sincerely,

Stantec Consulting Inc.

David R. Friz

David R. Friz, R.G.
Senior Project Geologist

Enclosure

cc: B. K. Seeley, Jr. – Seeley Oil Company, w/o encl.
Mike Hebertson – Utah Division of Oil, Gas, and Mining, w/o encl.

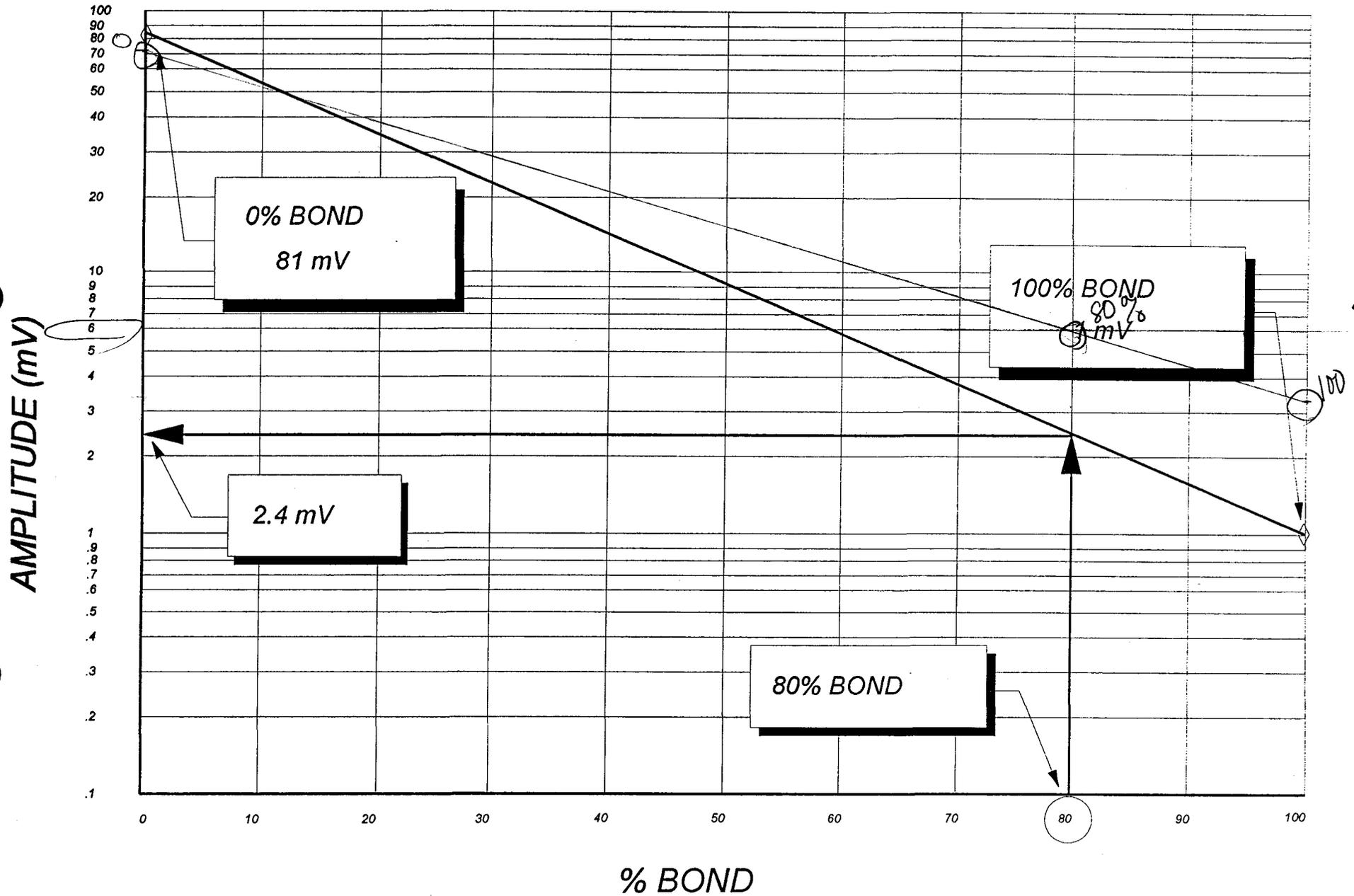
RECEIVED

JAN 16 2002

DIVISION OF
OIL, GAS AND MINING

Buildings
Environment
Industrial
Transportation
Urban Land

Seeley Cowboy #1 4303730012



Stantec Consulting Inc.
3995 South 700 East Suite 300
Salt Lake City UT 84107
Tel: (801) 261-0090 Fax: (801) 266-1671
stantec.com

RECEIVED

JAN 28 2002

**DIVISION OF
OIL, GAS AND MINING**



Stantec

January 22, 2002

Mr. Mike Hebertson
Utah Division of Oil, Gas, and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Public Notification; Reservoir Pressure Information
Seeley Oil Company Cowboy #1
NW SW of Section 14, Township 39 South, Range 22 East
San Juan County, Utah

Dear Mr. Hebertson:

Following our telephone conversation of January 17, 2002, Stantec Consulting contacted the San Juan Record in Monticello, Utah. The Division of Oil, Gas, and Mining public notice was published in the January 16, 2002, issue of the San Juan Record. A copy of the legal notice is attached.

Buildings

With regard to reservoir pressure information, a copy of the Sundry Notices and Report on Wells from Cowboy #1, dated July 3, 1968, presents drill stem test data from the interval 5738 - 5801', which is the zone in which the Cowboy #1 well is perforated. The DST information in the report indicated hydrostatic pressure of approximately 2950 psi (IHP 2956 and FHP 2946) and ISIP of 1749 and FSIP of 1605. A copy of the Sundry Notice is attached.

Environment

Industrial

Transportation

Urban Land

Additional pressure information from Cowboy #4: A copy of the Sundry Notices and Report on Wells dated March 3, 1969 presents drill stem test data from the interval 5730 - 5860' which is the zone in which the Cowboy #1 well is perforated. The DST information in the report indicated hydrostatic pressure of approximately 2900 psi (IHP 2917 and FHP 2898) and ISIP of 1989 and FSIP of 2009. A copy of the Sundry Notice is attached.

A theoretical maximum surface injection pressure of 2028 psig was determined (see attached sheet for calculation and assumptions used). The maximum pressure that was requested by Seeley Oil is 2,000 psi, which is consistent with the theoretical maximum surface injection pressure.

For questions or comments, please contact me at 801-261-0090, or Mr. Kim Seeley at 801-467-6419.

Sincerely,

Stantec Consulting Inc.



David R. Friz, R.G.
Senior Project Geologist

Attachments: Copy of San Juan Record Legal Notice dated January 16, 2002
Cowboy #1 Sundry Notices and Report on Wells dated July 3, 1968
Cowboy #4 Sundry Notices and Report on Wells dated March 3, 1969
Theoretical maximum surface pressure for injection calculation

cc: B. K. Seeley, Jr. – Seeley Oil Company
Brad Hill – Utah Division of Oil, Gas, and Mining

Attn: David Friz

ESTATE GUIDE SAN JUAN COUNTY

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1-800-853-1717

Public notice

SAN JUAN SOIL CONSERVATION DISTRICT 2002 MEETING SCHEDULE

Public notice is hereby given that the San Juan Soil Conservation District normally holds their monthly business meeting on the 3rd Tuesday of the month at the MD Ranch Cookhouse, 380 South Main, Monticello. The schedule will be as follows:

January 23, 2002	8:00 a.m.
February 20, 2002	8:00 a.m.
March 18, 2002	8:00 a.m.
April 16, 2002	7:00 a.m.
May 21, 2002	7:00 a.m.
June 18, 2002	7:00 a.m.
July 16, 2002	7:00 a.m.
August 20, 2002	7:00 a.m.
September 17, 2002	7:00 a.m.
October 23, 2002	8:00 a.m.
November 19, 2002	8:00 a.m.
December 17, 2002	8:00 a.m.

If interested in attending contact Bob Barry or Hal Larson to confirm date and time.

Published January 16, 2002 in the San Juan Record, Monticello, Utah.

1 - BEDROOM GOVERNMENT SUBSIDIZED HOUSING FOR THE ELDERLY, HANDICAPPED OR DISABLED

PARK PLAZA APTS.

50 E 100 North
PO Box 1295
Monticello
587-3554



2 - BEDROOM APARTMENTS GOVERNMENT SUBSIDIZED HOUSING

Rent Based on Income

PARK PLAZA APTS.

50 E 100 North
Monticello
587-3554



For rent

* Nice and roomy 2 bedroom, 2 bath mobile home in Monticello. \$350 or small almost new 1 bedroom completely furnished with TV, \$275, in quiet Country View Park. No smoking or pets. 435-587-2868. 1-16-02P

* Homes for rent in Monticello. Very nice studio, one bedroom and three bedroom home, January rent free. \$200, \$275, and \$400 plus utilities. Call Craig at 435-684-3601 or 684-3015. 1-4-02

* For rent in Bluff. Three bedroom, 2 bath, no pets or animals. \$450 plus deposit plus power and heat. 6 or 12 mo. lease. 435-672-2281 or 672-2204. 12-12-01

* Two bedroom house, has washer-dryer hookups, \$250. One and 2 bedroom apts and mobile homes. Rents from \$125 to \$425. Clean, sorry, no pets, call 435-587-2838. 10-31-01

* Home and 1, 2, and 3 bedroom apartment for rent in Monticello. All utilities paid. Call Kevin at 435-678-3901. 2-11-02

Public notice

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

IN THE MATTER OF THE APPLICATION OF
SEELEY OIL COMPANY FOR ADMINIS-
TRATIVE APPROVAL OF THE COWBOY #1
WELL LOCATED IN SECTION 14, TOWNSHIP
29 SOUTH, RANGE 22 EAST, S.L.M., SAN
JUAN COUNTY, UTAH, AS A CLASS II INJE-
CTION WELL

NOTICE OF AGENCY ACTION
CAUSE NO. UIC-285
THE STATE OF UTAH TO ALL PERSONS
INTERESTED IN THE ABOVE ENTITLED MAT-
TER

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Seeley Oil Company, for administrative approval of the Cowboy #1 well, located in Section 14, Township 29 South, Range 22 East, San Juan County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R648-10, Administrative Procedures.

The interval from 5,768 feet to 6,800 feet (Lower Ismay Formation), and 5,922 feet to 5,922 feet (Desert Creek Formation). The maximum requested injection pressure and maximum rate of injection will be determined from information gathered during completion of the well.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 8th day of January, 2002.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
of John R. Reza
Associate Director

Published January 16, 2002 in the San Juan Record, Monticello, Utah.

Homes for sale

* 1984 14x70 Nashua mobile home. Good condition. 2 br, 2 bath, kitch. appl. only. Has wood stove area. \$15,000. Call 970-677-4172 or 677-2439. 1-24-02

* Home for sale. Four bedroom, 3 bath, new carpet and paint. Conveniently located between schools in Monticello. Reasonably priced at \$85,000. 435-587-2938 or 2230. 11-21-01

* Great location. Three bedroom, 1 bath, brick home with porch. Landscaped and easy to keep up. Large driveway, shed, sandbox and fenced backyard. Appliances included. 297 W 2nd S, Monticello. Call 435-587-2113. 10-31-01

* Monticello home for sale. Five bdrm, 3 bath or call it a 4 bdrm with private guest room/ mother-in-law apt. Also 3 separate income apts on the property. Must sell - divorce settlement, appraised at \$135,000. Make offer. Call Kevin at 435-678-3901. 2-16-02

* Three bedroom, 2 bath, manufactured home on concrete foundation in Blanding. Fenced back yard, automatic sprinklers, fireplace in family room, vaulted ceilings. No visible marriage beam in center. Make offer. Call 435-678-2795. 11-9-01

**Without Advertising,
You Wouldn't Know**

Public notice

NOTICE OF REAL ESTATE SALE
SAN JUAN COUNTY SHERIFF'S OFFICE
In the District Court of the Seventh Judicial
District in and for the County of San Juan, State
of Utah:

Civil No. 9907-72
Utah Dept of Environmental Quality et al.

Plaintiffs

vs.

Clemente Telichea et al.

Defendants.

To be sold at Sheriff's Sale at the San Juan County Courthouse, 297 S. Main, Monticello, Utah, on the 29th day of January, 2002, at 10:00 a.m., all right, title and interest of said defendant, in and to those certain parcels of real property situated in San Juan County, State of Utah, described as follows to wit:

Parcel 1

Bag at the NW cor of Blk 1, W 100', S 210', E 100', N 210' to beg. Bag at the NW cor of lot 2, E 111', SW 1/4 203.3' along highway, N 170.88' to beg lot 2, Block 1, Plat A, Blanding Townsite Survey.

Parcel 2

Bag as a point 155.5' E from the NW cor of Lot 1, run th E 54.5', th S 210', th W 54.5', th N 210' to point of beg. Lot 1, block 2, Plat A, Blanding Townsite Survey.

Purchase price payable in lawful money of the United States of America
DATED at Monticello, Utah, this 28 day of December, 2001

MIKE LACEY,

San Juan County Sheriff,
State of Utah

Attorney: Paul M. McConkie,
Assistant Attorney General

Published January 2, 9, 16 and 23, 2002 in the San Juan Record, Monticello, Utah.

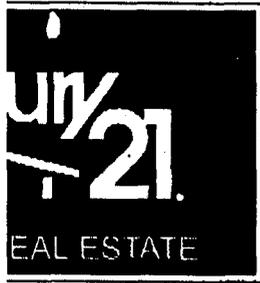
TOLL FREE 1-888-880-3166

**Serving LaSal, Monticello, Eastland,
Blanding, Bluff and outlying areas**

Dianne Nielson, Associate Broker
587-2585 • e-mail - dnieilson@sanjuan.net

Rye Nielson, Sales Agent
587-2585 • e-mail - rnieilson@sanjuan.net

Duane Hager, Sales Agent
587-2749 • e-mail - duanehager@usa.net



SAN JUAN COUNTY OFFICE

Monticello • (435) 587-3166 • FAX: 587-2579

BLANDING HOMES

64503 GREAT NEW LISTING AND BUSINESS OPPORTUNITY. This duplex is a perfect income producing property w full occupancy. Space to build additional units private yard and ample parking. Price at \$75,000
64496 BEAUTIFUL NEW CUSTOM HOME ON 5 ACRES this 3 bedroom, 3 bath home has

RECREATION

LAND AND ACREAGE

62400 PRICED REDUCED - 80 ACRES. Northeast of Monticello, great views and year around access. Now only \$50,000
63306 20 ACRES OF BEAUTIFUL RED ROCK AND CAVES Backed by BLM, good

Neighborhood Home Services • 678-2850

Attn: David Friz

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other instructions on
reverse side)

Form approved,
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0145834

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Northwest Bluff

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

14-398-20E., 21B&M

12. COUNTY OR PARISH AND 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 Wildcat

2. NAME OF OPERATOR

Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR

P. O. Box 1129, Rock Springs, Wyoming 82901

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

1980' FSL, 660' FWL, NW SW

14. PERMIT NO.

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

KB 4789.20' GR 4777'

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) Supplementary history

REPAIRING WELLS

ALTERING CASING

ABANDONMENTS*

(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 and 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.)*

Depth 5965', cutting core No. 12.

DST #2: 5801-5738', Desert Creek, IO 3 hours, ISI 2 hours, FO 18 hours 30 minutes, FSI 3 hours, opened with weak blow increasing, gas in 5 minutes, oil in 9 1/4 hours, 1/4 hour 39 Mcf, 1/2 hour 27 Mcf, 1 hour 83 Mcf, 1 1/2 hours 100 Mcf, 1-3/4 hours 100 Mcf and oil to surface, 2-3/4 hours 100 Mcf and 20 bbls oil, 3 hours 100 Mcf and 20 bbls oil, total 25 barrels; reopened, had 100 Mcf of gas throughout, 1 hour 20 barrels oil, 2 hours 20 bbls, 3 hrs 20 bbls, 4 hrs 16 bbls, 7 hrs 14 bbls, 9 hrs 14 bbls, 12 hrs 12 bbls, 15 hrs 12 bbls, 18 hrs 12 bbls, grand total of 288 bbls of 39° API gravity at 60° F. water. IHP 2956, IOFP's 195-1073, ISIP 1749, FOFP's 695-869, FSIP 1605, FHP 2946 psi.

DST #3: 5937-5882', IO 1/4 hour, ISI 1 hour, 2nd open 1 hour, 2nd SI 2 hours, FO 2 hours, FSI 4 hours, opened with weak blow continuing, no gas, reopened weak and dead in 11 minutes, final open dead, recovered 300' drilling mud. IHP 2956, IOFP's 20-30, ISIP 1702, 2nd OFP's 81-91, 2nd SIP 183, FOFP's 122-153, FSIP 327, FHP 2956 psi.

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

SIGNED

B. W. Craft, Jr.

TITLE

General Manager,
Gas Supply Operations

DATE

July 1, 1960

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP
(Other instruction
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 GAS WELL OTHER Wildcat

2. NAME OF OPERATOR
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
510' FSL, 1925' FWL SE SW

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
KB 4800.20' GR 4788'

5. LEASE DESIGNATION AND SERIAL NO.
Utah 0145834

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Cowboy

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLM, OR OTHER AND SURVEY OF AREA
14-39S-22E., SLB&M

12. COUNTY OR PARISH 13. STATE
San Juan Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT.

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Supplementary history

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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.)*

TD 5860', rig released February 23, 1969, waiting on completion tools.
DST #1: 5730-5860', Ismay, IO 2-3/4 hours, ISI 3 hours, FO 13 hours, FSI 4 hours, opened with strong blow, gas to surface in 5 minutes, 1/4 hour 370 Mcf, 1/2 hour 303 Mcf, 1 hour 227 Mcf, 2 hours 108 Mcf, 2-3/4 hours 53 Mcf; reopened, 1/2 hour 9 Mcf, 1 hour 13 Mcf, 3 hours 31 Mcf, 5 hours 18 Mcf, 7 hours 34 Mcf and oil to surface, 9 hours 253 Mcf and total of 31.15 barrels of oil, 11 hours 59 Mcf no oil, 13 hours 48 Mcf, recovered 31.15 barrels of oil and reversed from drill pipe 22 barrels of oil, no free water, total recovery 53.15 barrels. IHP 2917, IOFP's 210-602, ISIP 1989, FOPP's 640-899, FSIP 2009, FHP 2898 psi.

Landed 5846.47' net, 5890.63' gross of 5 1/2", K-55, 8rd thd, ST&C casing at 5858.6' and set with 300 sacks type A salt saturated 50-50 Pozmix - 2% gel; full return while cementing and displacing.

WOCT.

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

SIGNED B. H. Croft TITLE Vice President, Gas Supply Operations DATE March 3 1969

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Theoretical maximum surface pressure for injection – Cowboy #1

Pressure was determined using:

$$P_m = [FG - (0.433)(SG)]d$$

Where P_m = maximum pressure at well head (psig)

FG = fracture gradient, assumed to be 0.80

SG = specific gravity of injection fluid. In this case the SG of a water sample from Cowboy Field treater, which contains water from Cowboy #5 and Cowboy #7. This is the water that is proposed to be injected.

d = depth, approximately 5800 feet

$$P_m = [0.80 - (0.433)(1.04)]5800$$

$$P_m = 2028 \text{ psig}$$

Sources - Recapt. Plant - 2 Fed 1 St.

- Cowboy - 2 Fed.

#5 prod ~ 400 lbs oil + 100 net + 2 water
#7 - 100 net gas

Pressure

- BHP 2956

LOFP 195-1073

ESCP 1749

FOPF 695-869

FSEP 1605

FHP 2946

now on vacuum

Val. from Recapt. + Cowboy possible right away

monthly Val. limit

press. limitation ~ 500

OIL & GAS PRODUCTION DATA

Cowboy #5

API	ZONE	ACCOUNT	ENTITY	MONTH	YEAR	DAYS	OIL PROD	GAS PROD	WATER PROD	RECD DATE
4303730062	ISMY	N2880	2530	6	1999	21	272	105	0	02/28/2000
4303730062	ISMY	N2880	2530	7	1999	31	305	155	0	02/28/2000
4303730062	ISMY	N2880	2530	8	1999	27	243	135	0	02/28/2000
4303730062	ISMY	N2880	2530	9	1999	30	266	150	17	02/28/2000
4303730062	ISMY	N2880	2530	10	1999	31	253	155	0	02/28/2000
4303730062	ISMY	N2880	2530	11	1999	30	229	150	0	02/28/2000
4303730062	ISMY	N2880	2530	12	1999	31	328	155	0	02/28/2000
4303730062	ISMY	N2880	2530	1	2000	31	238	155	0	02/28/2000
4303730062	ISMY	N2880	2530	2	2000	24	143	120	0	04/17/2000
4303730062	ISMY	N2880	2530	3	2000	31	313	155	172	07/18/2000
4303730062	ISMY	N2880	2530	4	2000	30	397	150	264	07/18/2000
4303730062	ISMY	N2880	2530	5	2000	31	465	155	272	07/18/2000
4303730062	ISMY	N2880	2530	6	2000	30	382	150	298	08/16/2000
4303730062	ISMY	N2880	2530	7	2000	31	205	155	143	09/11/2000
4303730062	ISMY	N2880	2530	8	2000	31	289	155	230	10/19/2000
4303730062	ISMY	N2880	2530	9	2000	25	308	125	136	11/16/2000
4303730062	ISMY	N2880	2530	10	2000	31	302	155	146	01/03/2001
4303730062	ISMY	N2880	2530	11	2000	30	273	150	86	01/09/2001
4303730062	ISMY	N2880	2530	12	2000	31	252	155	3	02/13/2001
4303730062	ISMY	N2880	2530	1	2001	11	62	55	0	03/26/2001
4303730062	ISMY	N2880	2530	2	2001	28	282	140	1	04/03/2001
4303730062	ISMY	N2880	2530	3	2001	31	334	155	202	05/08/2001
4303730062	ISMY	N2880	2530	4	2001	30	196	150	202	06/19/2001
4303730062	ISMY	N2880	2530	5	2001	31	375	155	100	07/10/2001
4303730062	ISMY	N2880	2530	6	2001	30	242	150	122	08/28/2001
4303730062	ISMY	N2880	2530	7	2001	31	261	155	0	10/03/2001
4303730062	ISMY	N2880	2530	8	2001	27	156	135	0	12/11/2001
4303730062	ISMY	N2880	2530	9	2001	19	394	95	0	12/26/2001
4303730062	ISMY	N6820	2530	4	1998	30	274	150	0	
4303730062	ISMY	N6820	2530	5	1998	22	241	110	0	
4303730062	ISMY	N6820	2530	6	1998	28	175	110	0	
4303730062	ISMY	N6820	2530	7	1998	23	308	110	0	
4303730062	ISMY	N6820	2530	8	1998	31	293	155	0	
4303730062	ISMY	N1080	2540	1	1984	24	200	0	73	
4303730062	ISMY	N1080	2540	2	1984	29	189	0	0	
4303730062	ISMY	N1080	2540	3	1984	30	231	0	0	
4303730062	ISMY	N1080	2540	4	1984	30	231	0	0	
4303730062	ISMY	N1080	2540	5	1984	31	200	0	0	
4303730062	ISMY	N1080	2540	6	1984	30	236	0	0	
4303730062	ISMY	N1080	2540	7	1984	20	151	0	0	
4303730062	ISMY	N1080	2540	8	1984	31	159	0	0	
4303730062	ISMY	N1080	2540	9	1984	30	236	0	0	
4303730062	ISMY	N1080	2540	10	1984	31	236	0	0	
4303730062	ISMY	N1080	2540	11	1984	30	214	0	0	

OIL & GAS PRODUCTION DATA

Lowboy #7

API	ZONE	ACCOUNT	ENTITY	MONTH	YEAR	DAYS	OIL PROD	GAS PROD	WATER PROD	RECD DATE
4303730325	ISMY	N2880	2530	6	1999	0	0	0	0	02/28/2000
4303730325	ISMY	N2880	2530	7	1999	0	0	0	0	02/28/2000
4303730325	ISMY	N2880	2530	8	1999	0	0	0	0	02/28/2000
4303730325	ISMY	N2880	2530	9	1999	0	0	0	0	02/28/2000
4303730325	ISMY	N2880	2530	10	1999	0	0	0	0	02/28/2000
4303730325	ISMY	N2880	2530	11	1999	0	0	0	0	02/28/2000
4303730325	ISMY	N2880	2530	12	1999	0	0	0	0	02/28/2000
4303730325	ISMY	N2880	2530	1	2000	0	0	0	0	02/28/2000
4303730325	ISMY	N2880	2530	2	2000	5	221	25	0	04/17/2000
4303730325	ISMY	N2880	2530	3	2000	31	165	155	347	07/18/2000
4303730325	ISMY	N2880	2530	4	2000	30	121	150	324	07/18/2000
4303730325	ISMY	N2880	2530	5	2000	31	0	155	0	07/18/2000
4303730325	ISMY	N2880	2530	6	2000	30	0	150	0	08/16/2000
4303730325	ISMY	N2880	2530	7	2000	31	0	155	0	09/11/2000
4303730325	ISMY	N2880	2530	8	2000	31	0	155	0	10/19/2000
4303730325	ISMY	N2880	2530	9	2000	25	0	125	0	11/16/2000
4303730325	ISMY	N2880	2530	10	2000	31	0	155	0	01/03/2001
4303730325	ISMY	N2880	2530	11	2000	30	0	150	0	01/09/2001
4303730325	ISMY	N2880	2530	12	2000	31	0	155	0	02/13/2001
4303730325	ISMY	N2880	2530	1	2001	11	0	55	0	03/26/2001
4303730325	ISMY	N2880	2530	2	2001	28	0	140	0	04/03/2001
4303730325	ISMY	N2880	2530	3	2001	31	0	155	0	05/08/2001
4303730325	ISMY	N2880	2530	4	2001	30	0	150	0	06/19/2001
4303730325	ISMY	N2880	2530	5	2001	31	0	155	0	07/10/2001
4303730325	ISMY	N2880	2530	6	2001	30	0	150	0	08/28/2001
4303730325	ISMY	N2880	2530	7	2001	31	0	155	0	10/03/2001
4303730325	ISMY	N2880	2530	8	2001	27	0	135	0	12/11/2001
4303730325	ISMY	N2880	2530	9	2001	19	0	95	0	12/26/2001
4303730325	ISMY	N6820	2530	4	1998	0	0	0	0	
4303730325	ISMY	N6820	2530	5	1998	0	0	0	0	
4303730325	ISMY	N6820	2530	6	1998	0	0	0	0	
4303730325	ISMY	N6820	2530	7	1998	0	0	0	0	
4303730325	ISMY	N6820	2530	8	1998	0	0	0	0	
4303730325	ISMY	N1080	2540	9	1984	30	236	0	0	
4303730325	ISMY	N1080	2545	1	1984	31	89	0	90	
4303730325	ISMY	N1080	2545	2	1984	29	91	0	0	
4303730325	ISMY	N1080	2545	3	1984	31	87	0	100	
4303730325	ISMY	N1080	2545	4	1984	15	50	0	0	
4303730325	ISMY	N1080	2545	5	1984	31	70	0	80	
4303730325	ISMY	N1080	2545	6	1984	30	88	0	90	
4303730325	ISMY	N1080	2545	7	1984	24	60	0	0	
4303730325	ISMY	N1080	2545	8	1984	31	60	0	70	
4303730325	ISMY	N1080	2545	10	1984	31	60	0	60	
4303730325	ISMY	N1080	2545	11	1984	30	60	0	60	

OIL & GAS PRODUCTION DATA

County #1

API	ZONE	ACCOUNT	ENTITY	MONTH	YEAR	DAYS	OIL PROD	GAS PROD	WATER PROD	RECD DATE
4303730012	ISMY	N1080	2530	1	1984	24	200	0	73	
4303730012	ISMY	N1080	2530	2	1984	29	189	0	0	
4303730012	ISMY	N1080	2530	3	1984	30	231	0	0	
4303730012	ISMY	N1080	2530	4	1984	30	243	0	0	
4303730012	ISMY	N1080	2530	5	1984	31	200	0	0	
4303730012	ISMY	N1080	2530	6	1984	30	236	0	0	
4303730012	ISMY	N1080	2530	7	1984	20	151	0	0	
4303730012	ISMY	N1080	2530	8	1984	31	159	0	0	
4303730012	ISMY	N1080	2530	9	1984	30	236	0	0	
4303730012	ISMY	N1080	2530	10	1984	31	236	0	0	
4303730012	ISMY	N1080	2530	11	1984	30	214	0	0	
4303730012	ISMY	N1080	2530	12	1984	31	223	0	0	
4303730012	ISMY	N1080	2530	1	1985	31	222	0	40	
4303730012	ISMY	N1080	2530	2	1985	28	113	0	0	
4303730012	ISMY	N1080	2530	3	1985	28	201	0	25	
4303730012	ISMY	N1080	2530	4	1985	12	114	0	29	
4303730012	ISMY	N1080	2530	5	1985	8	89	0	45	
4303730012	ISMY	N1080	2530	6	1985	12	302	0	289	
4303730012	ISMY	N1080	2530	7	1985	24	257	0	255	
4303730012	ISMY	N1080	2530	8	1985	23	245	0	191	
4303730012	ISMY	N1080	2530	9	1985	19	219	0	119	
4303730012	ISMY	N1080	2530	10	1985	16	172	0	85	
4303730012	ISMY	N1080	2530	11	1985	15	84	0	57	
4303730012	ISMY	N1080	2530	12	1985	28	265	0	104	
4303730012	ISMY	N1080	2530	1	1986	31	177	0	33	
4303730012	ISMY	N1080	2530	2	1986	21	116	0	28	
4303730012	ISMY	N1080	2530	3	1986	31	185	0	57	
4303730012	ISMY	N1080	2530	4	1986	30	143	0	5	
4303730012	ISMY	N1080	2530	5	1986	31	149	0	36	
4303730012	ISMY	N1080	2530	6	1986	30	143	0	86	
4303730012	ISMY	N1080	2530	7	1986	31	163	0	62	
4303730012	ISMY	N1080	2530	8	1986	31	178	0	30	
4303730012	ISMY	N1080	2530	9	1986	28	122	0	58	
4303730012	ISMY	N1080	2530	10	1986	31	103	0	50	
4303730012	ISMY	N1080	2530	11	1986	30	150	0	28	
4303730012	ISMY	N1080	2530	12	1986	31	109	0	56	
4303730012	ISMY	N1080	2530	1	1987	30	122	0	21	
4303730012	ISMY	N1080	2530	2	1987	28	111	0	28	
4303730012	ISMY	N1080	2530	3	1987	30	147	0	21	
4303730012	ISMY	N1080	2530	4	1987	26	128	0	18	
4303730012	ISMY	N1080	2530	5	1987	30	102	0	3	
4303730012	ISMY	N1080	2530	6	1987	30	191	0	4	
4303730012	ISMY	N1080	2530	7	1987	31	183	0	1	
4303730012	ISMY	N1080	2530	8	1987	31	185	0	5	

OIL & GAS PRODUCTION DATA

API	ZONE	ACCOUNT	ENTITY	MONTH	YEAR	DAYS	OIL PROD	GAS PROD	WATER PROD	RECD DATE
4303730012	ISMV	N1080	2530	9	1987	30	172	0	1	
4303730012	ISMV	N1080	2530	10	1987	30	212	0	3	
4303730012	ISMV	N1080	2530	11	1987	30	258	0	1	
4303730012	ISMV	N1080	2530	12	1987	30	109	0	0	
4303730012	ISMV	N1080	2530	1	1988	30	195	0	2	
4303730012	ISMV	N1080	2530	2	1988	29	180	0	1	
4303730012	ISMV	N1080	2530	3	1988	29	183	145	1	
4303730012	ISMV	N1080	2530	4	1988	30	148	150	2	
4303730012	ISMV	N1080	2530	5	1988	22	189	110	2	
4303730012	ISMV	N1080	2530	6	1988	29	182	145	3	
4303730012	ISMV	N1080	2530	7	1988	31	181	155	4	
4303730012	ISMV	N1080	2530	8	1988	31	186	155	2	
4303730012	ISMV	N1080	2530	9	1988	30	176	150	2	
4303730012	ISMV	N1080	2530	10	1988	31	179	155	2	
4303730012	ISMV	N1080	2530	11	1988	30	174	150	2	
4303730012	ISMV	N1080	2530	12	1988	29	152	145	5	
4303730012	ISMV	N1080	2530	1	1989	29	171	145	0	
4303730012	ISMV	N1080	2530	2	1989	25	149	125	0	
4303730012	ISMV	N1080	2530	3	1989	25	176	125	1	
4303730012	ISMV	N1080	2530	4	1989	30	174	150	3	
4303730012	ISMV	N1080	2530	5	1989	30	155	150	0	
4303730012	ISMV	N1080	2530	6	1989	30	182	150	2	
4303730012	ISMV	N1080	2530	7	1989	31	171	155	4	
4303730012	ISMV	N1080	2530	8	1989	31	164	155	3	
4303730012	ISMV	N1080	2530	9	1989	30	148	150	1	
4303730012	ISMV	N1080	2530	10	1989	30	26	10	0	
4303730012	ISMV	N1080	2530	11	1989	29	44	145	0	
4303730012	ISMV	N1080	2530	12	1989	29	45	145	0	
4303730012	ISMV	N1080	2530	1	1990	30	35	150	0	
4303730012	ISMV	N1080	2530	2	1990	28	34	42	0	
4303730012	ISMV	N1080	2530	3	1990	21	44	63	0	
4303730012	ISMV	N1080	2530	4	1990	30	36	150	1	
4303730012	ISMV	N1080	2530	5	1990	31	34	155	0	
4303730012	ISMV	N1080	2530	6	1990	30	29	150	0	
4303730012	ISMV	N1080	2530	7	1990	22	6	110	0	
4303730012	ISMV	N1080	2530	8	1990	23	47	115	0	
4303730012	ISMV	N1080	2530	9	1990	26	38	130	0	
4303730012	ISMV	N1080	2530	10	1990	31	38	155	0	
4303730012	ISMV	N1080	2530	11	1990	30	35	150	0	
4303730012	ISMV	N1080	2530	12	1990	29	39	145	0	
4303730012	ISMV	N1080	2530	1	1991	23	30	115	0	
4303730012	ISMV	N1080	2530	2	1991	21	24	105	3	
4303730012	ISMV	N1080	2530	3	1991	27	38	135	19	
4303730012	ISMV	N1080	2530	4	1991	30	35	150	47	

OIL & GAS PRODUCTION DATA

API	ZONE	ACCOUNT	ENTITY	MONTH	YEAR	DAYS	OIL PROD	GAS PROD	WATER PROD	RECD DATE
4303730012	ISMY	N1080	2530	5	1991	31	35	155	65	
4303730012	ISMY	N1080	2530	6	1991	2	3	10	0	
4303730012	ISMY	N1080	2530	7	1991	23	33	115	189	
4303730012	ISMY	N1080	2530	8	1991	9	34	45	23	
4303730012	ISMY	N1080	2530	9	1991	30	31	150	5	
4303730012	ISMY	N1080	2530	10	1991	31	27	155	15	
4303730012	ISMY	N1080	2530	11	1991	25	24	125	0	
4303730012	ISMY	N1080	2530	12	1991	0	0	0	0	
4303730012	ISMY	N1080	2530	1	1992	0	0	0	0	
4303730012	ISMY	N1080	2530	2	1992	0	0	0	0	
4303730012	ISMY	N1080	2530	3	1992	0	0	0	0	
4303730012	ISMY	N1080	2530	4	1992	0	0	0	0	
4303730012	ISMY	N1080	2530	5	1992	0	0	0	0	
4303730012	ISMY	N1080	2530	6	1992	0	0	0	0	
4303730012	ISMY	N1080	2530	7	1992	0	0	0	0	
4303730012	ISMY	N1080	2530	8	1992	0	0	0	0	
4303730012	ISMY	N1080	2530	9	1992	0	0	0	0	
4303730012	ISMY	N1080	2530	10	1992	0	0	0	0	
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4303730012	ISMY	N1080	2530	4	1993	0	0	0	0	
4303730012	ISMY	N1080	2530	5	1993	0	0	0	0	
4303730012	ISMY	N1080	2530	6	1993	0	0	0	0	
4303730012	ISMY	N1080	2530	7	1993	0	0	0	0	
4303730012	ISMY	N1080	2530	8	1993	0	0	0	0	
4303730012	ISMY	N1080	2530	9	1993	0	0	0	0	
4303730012	ISMY	N1080	2530	10	1993	0	0	0	0	
4303730012	ISMY	N1080	2530	11	1993	0	0	0	0	
4303730012	ISMY	N1080	2530	12	1993	0	0	0	0	
4303730012	ISMY	N1080	2530	1	1994	0	0	0	0	
4303730012	ISMY	N1080	2530	2	1994	0	0	0	0	
4303730012	ISMY	N1080	2530	3	1994	0	0	0	0	
4303730012	ISMY	N1080	2530	4	1994	0	0	0	0	
4303730012	ISMY	N1080	2530	5	1994	0	0	0	0	
4303730012	ISMY	N1080	2530	6	1994	0	0	0	0	
4303730012	ISMY	N1080	2530	7	1994	0	0	0	0	
4303730012	ISMY	N1080	2530	8	1994	0	0	0	0	
4303730012	ISMY	N1080	2530	9	1994	0	0	0	0	
4303730012	ISMY	N1080	2530	10	1994	0	0	0	0	
4303730012	ISMY	N1080	2530	11	1994	0	0	0	0	
4303730012	ISMY	N1080	2530	12	1994	0	0	0	0	

OIL & GAS PRODUCTION DATA

API	ZONE	ACCOUNT	ENTITY	MONTH	YEAR	DAYS	OIL PROD	GAS PROD	WATER PROD	PROD	RECD DATE
4303730012	ISMY	N1080	2530	1	1995	0	0	0	0	0	
4303730012	ISMY	N1080	2530	2	1995	0	0	0	0	0	
4303730012	ISMY	N1080	2530	3	1995	0	0	0	0	0	
4303730012	ISMY	N1080	2530	4	1995	0	0	0	0	0	
4303730012	ISMY	N1080	2530	5	1995	0	0	0	0	0	
4303730012	ISMY	N1080	2530	6	1995	0	0	0	0	0	
4303730012	ISMY	N1080	2530	7	1995	0	0	0	0	0	
4303730012	ISMY	N1080	2530	8	1995	0	0	0	0	0	
4303730012	ISMY	N1080	2530	9	1995	0	0	0	0	0	
4303730012	ISMY	N1080	2530	10	1995	0	0	0	0	0	
4303730012	ISMY	N1080	2530	11	1995	0	0	0	0	0	
4303730012	ISMY	N1080	2530	12	1995	0	0	0	0	0	
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4303730012	ISMY	N1080	2530	2	1996	0	0	0	0	0	
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4303730012	ISMY	N1080	2530	6	1996	0	0	0	0	0	
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4303730012	ISMY	N1080	2530	8	1996	0	0	0	0	0	
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4303730012	ISMY	N1080	2530	10	1996	0	0	0	0	0	
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4303730012	ISMY	N1080	2530	2	1997	0	0	0	0	0	
4303730012	ISMY	N1080	2530	3	1997	0	0	0	0	0	
4303730012	ISMY	N1080	2530	4	1997	0	0	0	0	0	
4303730012	ISMY	N1080	2530	5	1997	0	0	0	0	0	
4303730012	ISMY	N1080	2530	6	1997	0	0	0	0	0	
4303730012	ISMY	N1080	2530	7	1997	0	0	0	0	0	
4303730012	ISMY	N1080	2530	8	1997	0	0	0	0	0	
4303730012	ISMY	N1080	2530	9	1997	0	0	0	0	0	
4303730012	ISMY	N1080	2530	10	1997	0	0	0	0	0	
4303730012	ISMY	N1080	2530	11	1997	0	0	0	0	0	
4303730012	ISMY	N1080	2530	12	1997	0	0	0	0	0	
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4303730012	ISMY	N2880	2530	9	1998	0	0	0	0	0	
4303730012	ISMY	N2880	2530	10	1998	0	0	0	0	0	
4303730012	ISMY	N2880	2530	11	1998	0	0	0	0	0	
4303730012	ISMY	N2880	2530	12	1998	0	0	0	0	0	
4303730012	ISMY	N2880	2530	1	1999	0	0	0	0	0	

OIL & GAS PRODUCTION DATA

API	ZONE	ACCOUNT	ENTITY	MONTH	YEAR	DAYS	OIL PROD	GAS PROD	WATER PROD	RECD DATE
4303730012	ISMY	N2880	2530	2	1999	0	0	0	0	04/05/1999
4303730012	ISMY	N2880	2530	3	1999	0	0	0	0	05/18/1999
4303730012	ISMY	N2880	2530	4	1999	0	0	0	0	06/21/1999
4303730012	ISMY	N2880	2530	5	1999	0	0	0	0	07/20/1999
4303730012	ISMY	N2880	2530	6	1999	0	0	0	0	02/28/2000
4303730012	ISMY	N2880	2530	7	1999	0	0	0	0	02/28/2000
4303730012	ISMY	N2880	2530	8	1999	0	0	0	0	02/28/2000
4303730012	ISMY	N2880	2530	9	1999	0	0	0	0	02/28/2000
4303730012	ISMY	N2880	2530	10	1999	0	0	0	0	02/28/2000
4303730012	ISMY	N2880	2530	11	1999	0	0	0	0	02/28/2000
4303730012	ISMY	N2880	2530	12	1999	0	0	0	0	02/28/2000
4303730012	ISMY	N2880	2530	1	2000	0	0	0	0	02/28/2000
4303730012	ISMY	N2880	2530	2	2000	0	0	0	0	04/17/2000
4303730012	ISMY	N2880	2530	3	2000	0	0	0	0	05/31/2000
4303730012	ISMY	N2880	2530	4	2000	0	0	0	0	06/13/2000
4303730012	ISMY	N2880	2530	5	2000	0	0	0	0	07/18/2000
4303730012	ISMY	N2880	2530	6	2000	0	0	0	0	08/16/2000
4303730012	ISMY	N2880	2530	7	2000	0	0	0	0	09/11/2000
4303730012	ISMY	N2880	2530	8	2000	0	0	0	0	10/19/2000
4303730012	ISMY	N2880	2530	9	2000	0	0	0	0	11/16/2000
4303730012	ISMY	N2880	2530	10	2000	0	0	0	0	01/03/2001
4303730012	ISMY	N2880	2530	11	2000	0	0	0	0	01/09/2001
4303730012	ISMY	N2880	2530	12	2000	0	0	0	0	02/13/2001
4303730012	ISMY	N2880	2530	1	2001	0	0	0	0	03/26/2001
4303730012	ISMY	N2880	2530	2	2001	0	0	0	0	04/03/2001
4303730012	ISMY	N2880	2530	3	2001	0	0	0	0	05/08/2001
4303730012	ISMY	N2880	2530	4	2001	0	0	0	0	06/19/2001
4303730012	ISMY	N2880	2530	5	2001	0	0	0	0	07/10/2001
4303730012	ISMY	N2880	2530	6	2001	0	0	0	0	08/28/2001
4303730012	ISMY	N2880	2530	7	2001	0	0	0	0	10/03/2001
4303730012	ISMY	N2880	2530	8	2001	0	0	0	0	12/11/2001
4303730012	ISMY	N2880	2530	9	2001	0	0	0	0	12/26/2001
4303730012	ISMY	N6820	2530	4	1998	0	0	0	0	
4303730012	ISMY	N6820	2530	5	1998	0	0	0	0	
4303730012	ISMY	N6820	2530	6	1998	0	0	0	0	
4303730012	ISMY	N6820	2530	7	1998	0	0	0	0	
4303730012	ISMY	N6820	2530	8	1998	0	0	0	0	

CUMS - O = 95381
 G = 5840
 W = 2379

O+W = 97760 bbls

PRODUCTION SUMMARY:

12,918

5,840

2,356

DATABASE QUERY:

```
SELECT API,PROD_ZONE,ACCT_NUM,ENTITY, RPT_MONTH = DATEPART(MONTH,REPORT_PERIOD), RPT_YEAR =  
DATEPART(YEAR,REPORT_PERIOD), DAYS_PROD,OIL_PROD,GAS_PROD,WATER_PROD,WELL_TYPE,WELL_STATUS,P  
ROD_DATE_RECD,PROD_AMENDED_FLAG From PubProduction  
WHERE API = '4303730012' AND REPORT_PERIOD BETWEEN '01/01/1984' AND '1/01/2002'  
ORDER BY API ASC, ENTITY ASC, ACCT_NUM ASC, REPORT_PERIOD ASC
```

Stantec Consulting Inc.
3995 South 700 East Suite 300
Salt Lake City UT 84107
Tel: (801) 261-0090 Fax: (801) 266-1671
stantec.com



Stantec

January 29, 2002

Mr. Dan W. Jackson
UIC Team Leader, Ground Water Program
United States Environmental Protection Agency, Region VIII
999 18th Street, Suite 300-P-W-GW
Denver, CO 80202-2466

RE: Location of Seeley Oil Company Cowboy #1
NW SW of Section 14, Township 39 South, Range 22 East
San Juan County, Utah
Application for Injection Well

Dear Mr. Jackson:

In response to your letter of January 25, 2002, (copy attached) Stantec Consulting offers this clarification: Seeley Oil Company's lease and Cowboy #1 well are located on BLM land, and are not located within Indian reservation land.

If you have any questions in regards to this notice, please call me at (801) 261-0090, Mr. Kim Seeley at (801) 467-6419, or Mr. Mike Hebertson (Utah Division of Oil, Gas, and Mining) at (801) 538-5333.

Sincerely,

Stantec Consulting Inc.

David R. Friz

David R. Friz, R.G.
Senior Project Geologist

Attachment:

cc: Liz Janes – U.S. EPA Region IX
B. K. Seeley, Jr. – Seeley Oil Company
Mike Hebertson – Utah Division of Oil, Gas, and Mining

RECEIVED

JAN 31 2002

DIVISION OF
OIL, GAS AND MINING

Buildings
Environment
Industrial
Transportation
Urban Land



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
Phone 800-227-8917
<http://www.epa.gov/region08>

RECEIVED

JAN 28 2002

Stantec Consulting Inc.

Ref:8P-W-GW

JAN 25 2002

David R. Friz, R.G.
Stantec Consulting Inc.
3995 S. 700 East, Suite 300
Salt Lake City, UT 84017

Dear Mr. Friz:

Thank you for sending a copy of the Application for Injection Well, Seeley Oil Company Cowboy #1, which we received in our offices on January 17, 2002.

It was not clear to me whether the proposed injection well is to be located within the exterior boundaries of the Navajo Indian Tribe. Although the Region VIII Ground Water Program of the Environmental Protection Agency (EPA) regulates Underground Injection Control (UIC) wells on other Indian Reservations in the State of Utah, Region IX regulates UIC Class II injection wells within the Navajo Reservation. Therefore, I am forwarding this application to the EPA Region IX UIC Program Offices in San Francisco, CA, for any further EPA action that may be necessary.

If you have further question, you may contact me at (303) 312-6155, or Liz Janes, Region IX UIC Program offices at (415) 744-1834 or janes.elizabeth@epa.gov. The main office address for Region IX is 75 Hawthorne Street, San Francisco, California, 94105.

Sincerely,

Dan W. Jackson
UIC Team Leader
Ground Water Program

cc: L.. Janes, Region IX EPA



Fax Transmittal

Stantec Consulting Inc.
3995 South, 700 East Suite 300
Salt Lake City UT 84107 USA
Tel: (801) 261-0090 Fax: (801) 266-1671
www.stantec.com



Stantec

To: *Gil Hunt*

Sender: *David Friz*

Attention:

Tel. No:

Fax No: *359-3940*

Fax No:

Date: *3-7-02*

3 page(s) total includes cover sheet

File:

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The content of this fax is confidential. If the reader is not the intended recipient or its agent, be advised that any dissemination, distribution or copying of the content of this fax is prohibited. If you have received this fax in error, please notify us immediately and return the original fax to us by mail at our expense. Thank you.

Reference: *Seeley Oil Company
Cowboy #1*

Please contact me with questions.

RECEIVED

MAR 07 2002

DIVISION OF
OIL GAS AND MINES

SEELEY OIL COMPANY
P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

March 4, 2002

Mr. Gil Hunt
Utah Division of Oil, Gas, and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Request for Exception to Hearing Requirements, Converting Producing Well to Water Disposal Well
Seeley Oil Company Cowboy #1
NW SW of Section 14, Township 39 South, Range 22 East
San Juan County, Utah

Dear Mr. Hunt:

As a follow up to our meeting on February 25, 2002 at the Division of Oil, Gas, and Mining office, Seeley Oil presents a summary of our discussion and a request for administrative action.

Seeley Oil proposes to dispose of water in the Cowboy #1 well, perforated in the Lower Ismay from depth of 5760 to 5800, and the Desert Creek from depths of 5922 to 5932.

Seeley Oil proposes to dispose of a maximum of 7,500 barrels of water per month, an approximate average of 250 barrels of water per day (BWPD). Pressure at the surface will be limited to a maximum of 500 psi, which equates to approximately 2800 psi at formation depth. When the surface pressure, under static conditions, remains at 500 psi, Seeley Oil will cease water disposal operations.

Although nearly 250,000 total barrels of fluid have been extracted from the Cowboy Field, the total volume of water that may ultimately be disposed of will be based on static surface pressure conditions, as stated above.

Seeley Oil proposes that water for disposal will be collected in a system of three 300 barrel tanks, connected in series, to act as settling tanks for solids. Water collected by pumper truck will be introduced through a filter to the first tank. Water that will be disposed of in the Cowboy #1 well will leave the tank battery from the third tank, and if necessary, pass through a second filter, prior to being pumped into Cowboy #1.

03/07/2002 15:43 8012755

SEELEY OIL COMPANY

PAGE 02

03/07/02 THU 13:07 FAX 8013270390

STANTEC CONSULTING, INC

003

Initially, Seeley Oil would dispose of produced water from the Seeley Oil Cowboy Field and Recapture Pocket Field, which are completed in either the Ismay or Desert Creek. Disposing of these produced waters in Cowboy #1 provides Seeley Oil with a more economically attractive water disposal method than other water disposal alternatives available in the area. Water analysis reports that were submitted with the UIC Form 1 indicate that the produced waters are compatible.

Seeley anticipates eventually disposing of produced waters from Ismay and Desert Creek fields of other operators in the area. Seeley will require such operators to provide water analyses to demonstrate water compatibility before Seeley will accept such produced water. Additionally, Seeley Oil will closely monitor the operators who utilize the disposal well.

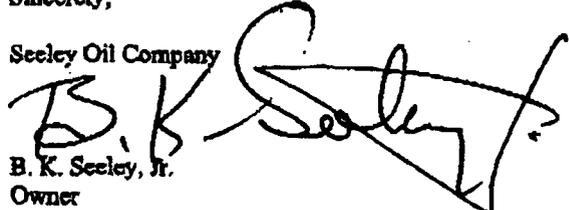
Based on the information presented above, Seeley Oil asserts that the water disposal would not cause reservoir damage since the pressure limitation of 500 psi surface pressure would not exceed original formation hydrostatic pressure, thereby maintaining seal integrity of the reservoir pod.

Seeley Oil requests an exception to the hearing requirements of R649-5-1-1, and administrative approval for converting Cowboy #1 to a water disposal well.

For questions or comments, please contact me at 801-467-6419, or David Friz of Stantec Consulting at 801-261-0090.

Sincerely,

Seeley Oil Company

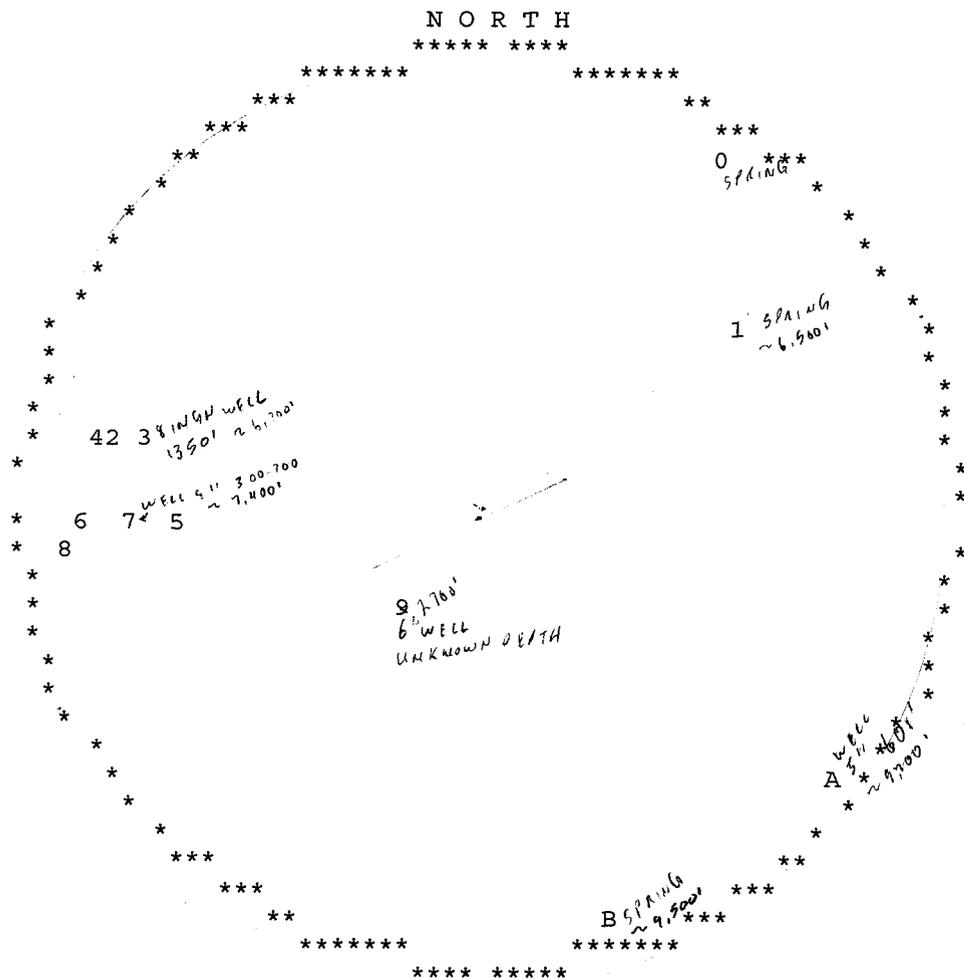

B. K. Seeley, Jr.
Owner

cc: Mike Hebertson - Utah Division of Oil, Gas, and Mining
Eric Jones - Bureau of Land Management
David R. Friz, R.G. - Stantec Consulting Inc.

UTAH DIVISION OF WATER RIGHTS
 WATER RIGHT POINT OF DIVERSION PLOT CREATED WED, MAR 27, 2002, 9:50 AM
 PLOT SHOWS LOCATION OF 12 POINTS OF DIVERSION

PLOT OF AN AREA WITH A RADIUS OF 20000 FEET FROM A POINT
 N 1980 FEET, W 660 FEET OF THE SW CORNER,
 SECTION 14 TOWNSHIP 39S RANGE 22E SL BASE AND MERIDIAN

PLOT SCALE IS APPROXIMATELY 1 INCH = 10000 FEET



UTAH DIVISION OF WATER RIGHTS
 NWPLAT POINT OF DIVERSION LOCATION PROGRAM

MAP CHAR	WATER RIGHT	QUANTITY CFS	AND/OR AC-FT	SOURCE DESCRIPTION or WELL INFO	POINT OF DIVERSION DESCRIPTION
				DIAMETER DEPTH YEAR LOG NORTH EAST CNR SEC TWN RNG B&M	
0	09 65	.0040	.00	Blue Point Spring Area	N 1049 W 1669 SE 36 38S 22E SL WATER USE(S): STOCKWATERING Bayles, Clark L. PRIORITY DATE: 01/07/19: Blanding
1	09 46	.0100	.00	Recapture Spring #1	S 804 W 691 NE 12 39S 22E SL WATER USE(S): STOCKWATERING Perkins, George PRIORITY DATE: 09/26/19: Blanding
2	09 375	5.0000	.00	Cottonwood Wash	S 325 W 500 NE 18 39S 22E SL WATER USE(S): IRRIGATION Perkins, Earl PRIORITY DATE: 05/03/19: Blanding
3	09 1480	.0150	.00	8 1350	S 557 E 592 NW 17 39S 22E SL WATER USE(S): STOCKWATERING USA Bureau of Land Management (Moab Dist P.O. Box 970 Moab PRIORITY DATE: 09/16/19:
4	09 55	1.4550	.00	Cottonwood Creek	S 843 W 1327 NE 18 39S 22E SL WATER USE(S): IRRIGATION DOMESTIC Two Swipe Cattle 1420 North Blue Mountain Road 91 Blanding PRIORITY DATE: 01/07/19:
5	09 809	.0150	.00	7 820	N N 1800 E 1700 SW 17 39S 22E SL WATER USE(S): DOMESTIC STOCKWATERING Two Swipe Cattle 1420 North Blue Mtn Rd (9-1) Blanding PRIORITY DATE: 05/10/19:
6	09 55	1.4550	.00	Cottonwood Creek	N 1541 W 2270 SE 18 39S 22E SL WATER USE(S): IRRIGATION DOMESTIC PRIORITY DATE: 01/07/19:

		Two Swipe Cattle			1420 North Blue Mountain Road 91				Blanding	
7	<u>09 1011</u>	.5000	.00	8	300 - 700	N	1320	E	100	SW 17 39S 22E SL
		WATER USE(S): IRRIGATION								PRIORITY DATE: 09/21/19:
		Bar M. K. Ranches Incorporated			P.O. Box 576					Monticello
8	<u>09 55</u>	1.4550	.00		Cottonwood Creek	N	192	W	2835	SE 18 39S 22E SL
		WATER USE(S): IRRIGATION DOMESTIC								PRIORITY DATE: 01/07/19:
		Two Swipe Cattle			1420 North Blue Mountain Road 91					Blanding
9	<u>09 1271</u>	.0150	.00	6		N	211	E	1180	W4 22 39S 22E SL
		WATER USE(S): STOCKWATERING OTHER								PRIORITY DATE: 09/30/19:
		USA Bureau of Land Management (Moab Dist P.O. Box 970								Moab
A	<u>09 406</u>	.1000	.00	5	601	<u>N</u>	N	880	W	1980 SE 30 39S 23E SL
		WATER USE(S): OTHER								PRIORITY DATE: 09/02/19:
		Continental Oil Company			1755 Glenarm Place					Denver
B	<u>09 45</u>	.0050	.00		Recapture Spring #5	S	39	W	1082	NE 2 40S 22E SL
		WATER USE(S): STOCKWATERING								PRIORITY DATE: 07/26/19:
		Nielson, Floyd W.								Blanding

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UTAH DIVISION OF WATER RIGHTS
 NWPLAT POINT OF DIVERSION LOCATION PROGRAM

MAP CHAR	WATER RIGHT	QUANTITY CFS	AND/OR AC-FT	SOURCE DESCRIPTION or WELL INFO	POINT OF DIVERSION DESCRIPTION
CHAR	RIGHT	CFS	AC-FT	DIAMETER DEPTH YEAR LOG	NORTH EAST CNR SEC TWN RNG B&M
0	09 46	.0100	.00	Recapture Spring #1	S 804 W 691 NE 12 39S 22E SL WATER USE(S): STOCKWATERING Perkins, George PRIORITY DATE: 09/26/19: Blanding
1	09 375	5.0000	.00	Cottonwood Wash	S 325 W 500 NE 18 39S 22E SL WATER USE(S): IRRIGATION Perkins, Earl PRIORITY DATE: 05/03/19: Blanding
2	09 1480	.0150	.00	8 1350	S 557 E 592 NW 17 39S 22E SL WATER USE(S): STOCKWATERING USA Bureau of Land Management (Moab Dist P.O. Box 970) PRIORITY DATE: 09/16/19: Moab
3	09 55	1.4550	.00	Cottonwood Creek	S 843 W 1327 NE 18 39S 22E SL WATER USE(S): IRRIGATION DOMESTIC Two Swipe Cattle 1420 North Blue Mountain Road 91 PRIORITY DATE: 01/07/19: Blanding

4	<u>09 809</u>	.0150	.00	7	820	<u>N</u>	N	1800	E	1700	SW 17	39S	22E	SL
	WATER USE(S): DOMESTIC STOCKWATERING										PRIORITY DATE: 05/10/19			
	Two Swipe Cattle										Blanding			
	1420 North Blue Mtn Rd (9-1)													
5	<u>09 55</u>	1.4550	.00	Cottonwood Creek			N	1541	W	2270	SE 18	39S	22E	SL
	WATER USE(S): IRRIGATION DOMESTIC										PRIORITY DATE: 01/07/19:			
	Two Swipe Cattle										Blanding			
	1420 North Blue Mountain Road 91													
6	<u>09 55</u>	1.4550	.00	Cottonwood Creek			N	192	W	2835	SE 18	39S	22E	SL
	WATER USE(S): IRRIGATION DOMESTIC										PRIORITY DATE: 01/07/19:			
	Two Swipe Cattle										Blanding			
	1420 North Blue Mountain Road 91													
7	<u>09 526</u>	.0446	.00	6	1450		S	756	E	677	NW 19	39S	22E	SL
	WATER USE(S): STOCKWATERING										PRIORITY DATE: 01/14/19			
	USA Bureau of Land Management										Salt Lake City			
	2370 South 2300 West													
8	<u>09 1271</u>	.0150	.00	6			N	211	E	1180	W4 22	39S	22E	SL
	WATER USE(S): STOCKWATERING OTHER										PRIORITY DATE: 09/30/19:			
	USA Bureau of Land Management (Moab Dist P.O. Box 970										Moab			



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

April 3, 2002

Seeley Oil Company
P.O. Box 9015
Salt Lake City, Utah 84109

Re: Conversion Approval for the Cowboy #1 located 1,980' FSL 660' FWL Sec. 14,
Township 39 South, Range 22 East, San Juan County, Utah.

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Seeley Oil Company.
3. A Bureau of Land Management (BLM) approved sundry notice for conversion to a disposal well, and BLM issued right-of-way will be obtained if required.
4. Conduct a Mechanical Integrity Test.
5. A cement bond log shall be run from Total Depth to the bottom of the surface casing, and formation tops correlated from the open hole logs. Aquifers above 2700 feet will be indicated.
6. A new amended UIC Form 1 will be submitted showing the proper injection intervals, maximum rate, and maximum surface pressure.

The above stipulations will be complied with prior to the issuance of a final injection permit from the Division. If you have any questions regarding this approval or the necessary requirements, please contact K. Michael Hebertson (801) 538-5333 at this office.

Sincerely,

for John R. Baza
Associate Director

KMH/er

cc: Dan Jackson, Environmental Protection Agency
Bureau of Land Management, Moab
San Juan County Commission

From: "Friz, David" <DFriz@stantec.com>
To: "Michael Hebertson" <mheberts.nrogm@state.ut.us>
Date: Thursday, April 04, 2002 2:14:33 PM
Subject: RE: Surety Bond Info, Seeley Oil Company

Mike, Kim Seeley gave me the following information:

CNA Insurance Company
Policy # 58023144
Amount: \$25,000.00

Please let me or Kim know if you have further questions. Thanks, David Friz

David R. Friz, R.G.
3995 South 700 East, Suite 300
Salt Lake City, UT 84107
dfriz@stantec.com
801-261-0090

> -----Original Message-----

> From: Michael Hebertson [SMTP:mheberts.nrogm@state.ut.us]
> Sent: Wednesday, April 03, 2002 3:07 PM
> To: Friz, David
> Subject: Surety Bond Info

>

> David,

>

> I have been working on the Statement of Basis for the Injection well,
> and one of the requirements is that the Surety Bond information covering
> the well is supplied. Can you E-Mail this info to me including Bond
> Number, amount of bond coverage, and Surety Company.
> The Conversion Letter was signed today and should be in the mail by
> Friday, let me know when you start your work.
> The State will not have a representative there when you run the bond
> log however the bond log should attempt to identify any near surface fresh
> water sands.

Received: from mail-00.rni.net
by email.state.ut.us; Thu, 04 Apr 2002 14:14:17 -0700
Received: from phxserv02.stgphx.com (unknown.rni.net [64.158.130.74] (may be forged))
by mail-00.rni.net (8.11.2/8.11.2) with ESMTP id g34LZZf08393
for <mheberts.nrogm@state.ut.us>; Thu, 4 Apr 2002 14:35:35 -0700
Received: by PHXSERV02 with Internet Mail Service (5.5.2653.19)
id <HYX8PNM2>; Thu, 4 Apr 2002 14:16:28 -0700
Message-ID: <5EC722F2DC0DD41192DA009027E5A7060453E426@PHXSERV02>
From: "Friz, David" <DFriz@stantec.com>
To: ""Michael Hebertson" <mheberts.nrogm@state.ut.us>
Subject: RE: Surety Bond Info, Seeley Oil Company
Date: Thu, 4 Apr 2002 14:16:24 -0700
Return-Receipt-To: "Friz, David" <DFriz@stantec.com>
MIME-Version: 1.0
X-Mailer: Internet Mail Service (5.5.2653.19)
Content-Type: text/plain

Mike, Kim Seeley gave me the following information:

CNA Insurance Company
Policy # 58023144
Amount: \$25,000.00

Please let me or Kim know if you have further questions. Thanks, David Friz

David R. Friz, R.G.
3995 South 700 East, Suite 300
Salt Lake City, UT 84107
dfriz@stantec.com
801-261-0090

> -----Original Message-----

> From: Michael Hebertson [SMTP:mheberts.nrogm@state.ut.us]
> Sent: Wednesday, April 03, 2002 3:07 PM
> To: Friz, David
> Subject: Surety Bond Info
>
> David,
>
> I have been working on the Statement of Basis for the Injection well,
> and one of the requirements is that the Surety Bond information covering
> the well is supplied. Can you E-Mail this info to me including Bond
> Number, amount of bond coverage, and Surety Company.
> The Conversion Letter was signed today and should be in the mail by
> Friday, let me know when you start your work.
> The State will not have a representative there when you run the bond
> log however the bond log should attempt to identify any near surface fresh
> water sands.

SEELEY OIL COMPANY
P.O. Box 9015
Salt Lake City, Utah 84109
801-467-6419

RECEIVED

APR 18 2002

DIVISION OF
OIL, GAS AND MINING

April 11, 2002

Mr. Gil Hunt
Utah Division of Oil, Gas, and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Proposed Procedure for Running Cement Bond Log and Pressure Testing Disposal Well
Seeley Oil Company Cowboy #1
NW SW of Section 14, Township 39 South, Range 22 East
San Juan County, Utah

Dear Mr. Hunt:

Based on the telephone conversation between yourself and David Friz with Stantec Consulting on April 9, 2002, Seeley Oil proposes the following procedure to obtain the cement bond log and to pressure test the well. Division of Oil, Gas, and Mining (DOGM) will be notified 48 hours prior to the initiation of field work so that DOGM personnel can be onsite, if desired.

First Day

Move in drilling rig
Rig up logging truck to run cement bond log
Run cement bond log from 6,000 feet (total depth) to 5,600 feet. The Lower Ismay (proposed zone) is perforated from 5760-5800 feet.
Fax a copy of the cement bond log to DOGM personnel for review.
Assuming cement bond log indicates that the casing cement is acceptable for a disposal well, set a bridge plug below the Lower Ismay perforations, at approximately 5850 feet.

Second Day

Run a packer on tubing in the well to a depth above the Lower Ismay perforations, set at approximately 5730 feet.
Run tubing in the well to depth of approximately 5800 feet.
Run mechanical integrity test of the injection string, pressuring up the casing-tubing annulus to 500 psi, which is the maximum injection pressure that will be permitted by DOGM. The pressure will be maintained for 5 minutes.

Submit test results to DOGM for review.

The injection string will be hooked up to the water tanks, pending final approval for water disposal from DOGM. However, water disposal will not commence until such approval is received.

Please indicated your concurrence with this procedure by signing below and returning a copy to me.

For questions or comments, please contact me at 801-467-6419, or David Friz of Stantec Consulting at 801-261-0090.

Sincerely,

Seeley Oil Company

David R. Friz
as directed by

B. K. Seeley, Jr.

Owner

cc: Mike Hebertson – Utah Division of Oil, Gas, and Mining
Eric Jones – Bureau of Land Management
David R. Friz, R.G. – Stantec Consulting Inc.

The Division of Oil, Gas, and Mining concurs with the procedure described above.

Name _____

Title _____

Date _____



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

well file
43-037-30012

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

April 19, 2002

Seeley Oil Company
P.O. Box 9015
Salt Lake City, Utah 84109

Re: Cowboy #1 Well, Section 14, T39S, R22E, San Juan County, Utah

Dear Mr. Seeley,

The Division of Oil, Gas and Mining (the "Division") is in receipt of a letter from you dated April 11, 2002, and received April 18, 2002, in which you suggest a summary procedure for running a cement bond log and testing mechanical integrity of the referenced well, which you are proposing for injection. The letter also requests that we concur by signing at the bottom and returning a copy.

The Division finds the suggested procedure acceptable with the following stipulations:

- 1) The pressure test will be held a minimum of 15 minutes.
- 2) Since the bond log will only cover about 160 feet above the proposed injection zone, additional monitoring and testing requirements will be imposed as follows, if the well is permitted for injection;
- 3) The tubing-casing annulus pressure will be monitored daily during injection operations and reported monthly to the Division;
- 4) The well will be tested for mechanical integrity every two years.

If you have questions concerning these stipulations, please call me at 801-538-5297 or Mike Hebertson at 801-538-5333.

Sincerely,

Gil Hunt

Technical Services Manager

er

cc: Eric Jones, BLM
David Friz, Stantec

FOR: Mike Hebertson
 FROM: B.K. Seeley
 date - 8/16/02

Please get to

mi CALLED DAVID FRIZ FP
 8/20 ABOUT; BETTER
 GEOLOGY, BLM PERMIT,
 LITHOLOGY, ACTAL WALLS
 LIST ~~BEING~~ USING THIS
 FACILITY,

Please call 435-672-2281
 if not received correctly.

FOR: Mike Hebertson
FROM: B.K. Seeley

date - 8/16/02

Please get to
Mike ASAP

Thanks



Please call 435-672-2281
if not received correctly.

WELL DATA

WELL SEARCH

WELL DATA

WELL HISTORY

WELL ACTIVITY

WELL NAME **COWBOY 1** API NUMBER **4303730012**
 OPERATOR **SEELEY OIL COMPANY** ACCT & ALT FLAG **N2880 #**
 FIELD NAME **COWBOY** FIELD NUMBER **340** FI

WELL LOCATION:

SURF LOCATION **1980 FSL 0660 FWL**
 Q. S. T. R. M. **NWSW 14 39.0 S 22.0 E S**
 COUNTY **SAN JUAN**

UTM Coordinates:

SURFACE - N **4139531.00** BHL - N
 SURFACE - E **635149.00** BHL - E

LATITUDE **37.39454**
 LONGITUDE **-109.47320**

CONFIDENTIAL
 CONFIDENTIAL
 DIRECTIONAL | HORIZI
 HORIZONTAL LATI
 ORIGINAL FIELD

TAX FLAG
 HANE FLAG
 ELEVATION **4789* KB**
 D NUMBER
 BOND TYPE
 UNIT NAME
CUMULATIVE PRODUCTION:
 OIL **95381**
 GAS **5840**
 WATER **2379**

COMMENTS **680715 WELL NM FR NW BLUFF 1:940905 OF NW 1/4 WELL RD PEASE O&G 12/93:000107 FR N1080 4/98: 000127 FR N6820 8/98:**

Mike - Read your phone message - 13cent in field, no paperwork - still making adjust. to tank batteries but will have new site security - also will have surveying for cowboy #1 - hope this all helps

Mike, Here's an update to a permit your assigned to. fc

P.S. will call you on my mobile.

Create **New Rec**

Save

Cancel Change

To **History**

To **Activity**

Print Recd

Export Recd



NUM

WELL DATA



WELL SEARCH

WELL DATA

WELL HISTORY

WELL ACTIVITY

WELL NAME API NUMBER WELL TYPE WELL STATUS
 OPERATOR ACCT & ALT FLAG # DESIGNATED OPER ACCT
 FIELD NAME FIELD NUMBER FIRST PRODUCTION LA | PA DATE

WELL LOCATION:

SURF LOCATION
 Q. S. T. R. M.
 COUNTY

UTM Coordinates:

SURFACE - N BHL - N
 SURFACE - E BHL - E

LATITUDE
 LONGITUDE

CONFIDENTIAL FLAG
 CONFIDENTIAL DATE
 DIRECTIONAL | HORIZONTAL
 HORIZONTAL LATERALS
 ORIGINAL FIELD TYPE
 WILDCAT TAX FLAG
 CB-METHANE FLAG
 ELEVATION
 BOND NUMBER
 BOND TYPE

LEASE NUMBER
 MINERAL LEASE TYPE
 SURFACE OWNER TYPE
 INDIAN TRIBE
 C.A. NUMBER
 UNIT NAME

CUMULATIVE PRODUCTION:
 OIL
 GAS
 WATER

COMMENTS

Create New Rec

Save

Cancel Change

To History

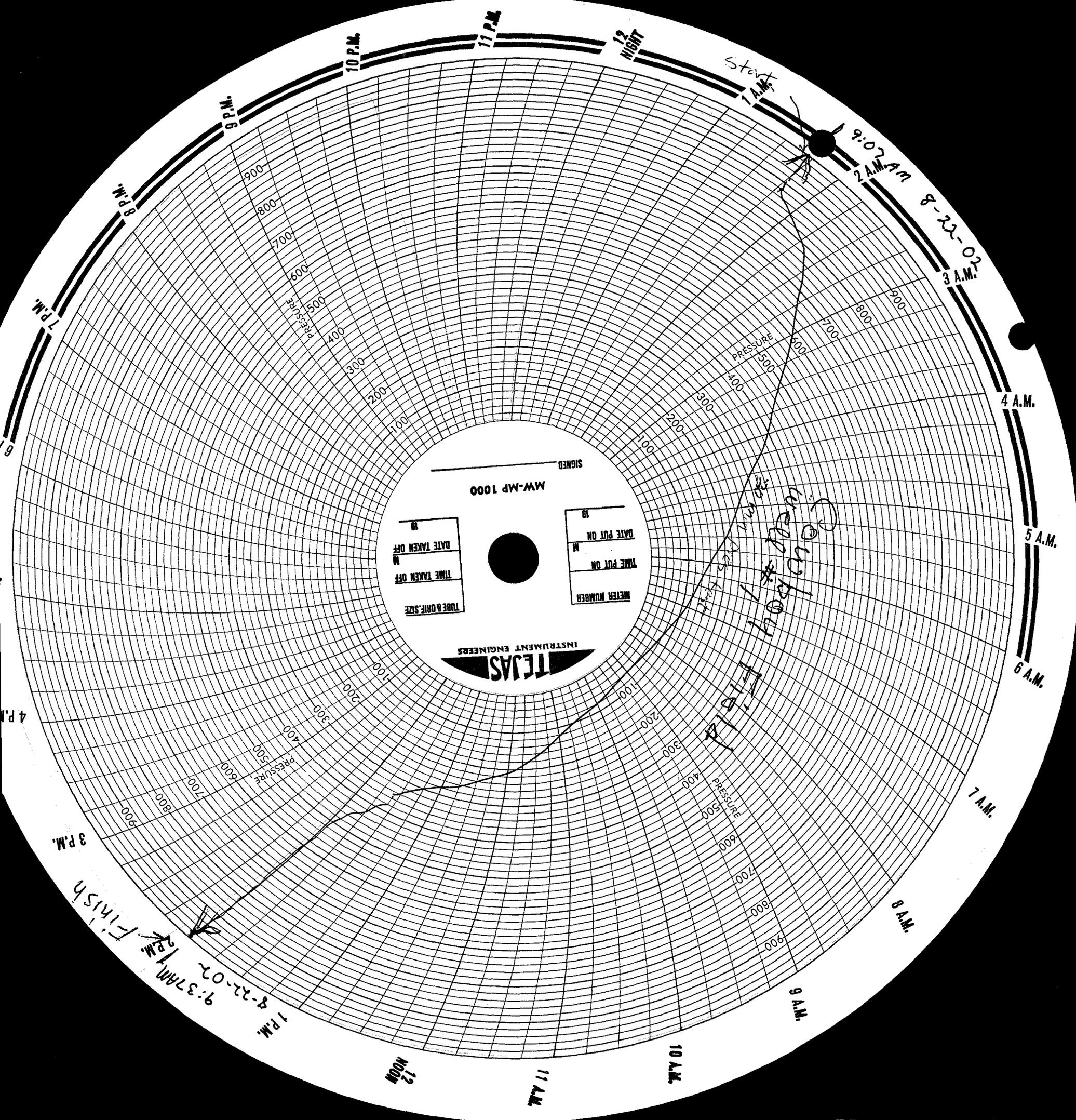
To Activity

Print Recd

Export Recd



NUM



Start
 1 A.M.
 9:07 A.M.
 8-22-02
 3 A.M.

4 A.M.
 5 A.M.
 6 A.M.

7 A.M.
 8 A.M.

9 A.M.

10 A.M.

11 A.M.

12 NOON

1 P.M.

3 P.M.

4 P.M.

7 P.M.

8 P.M.

9 P.M.

10 P.M.

11 P.M.

12 NIGHT

MW-MP 1000

SIGNED

TUBE & ORIF. SIZE
 TIME TAKEN OFF
 DATE TAKEN OFF
 M

METER NUMBER
 TIME PUT ON
 DATE PUT ON
 M

TEXAS
 INSTRUMENT ENGINEERS

FIELD
 1100
 1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0
 -100
 -200
 -300
 -400
 -500
 -600
 -700
 -800
 -900

9:37 AM
 8-22-02
 Finish

1000 P.S.I. Springs

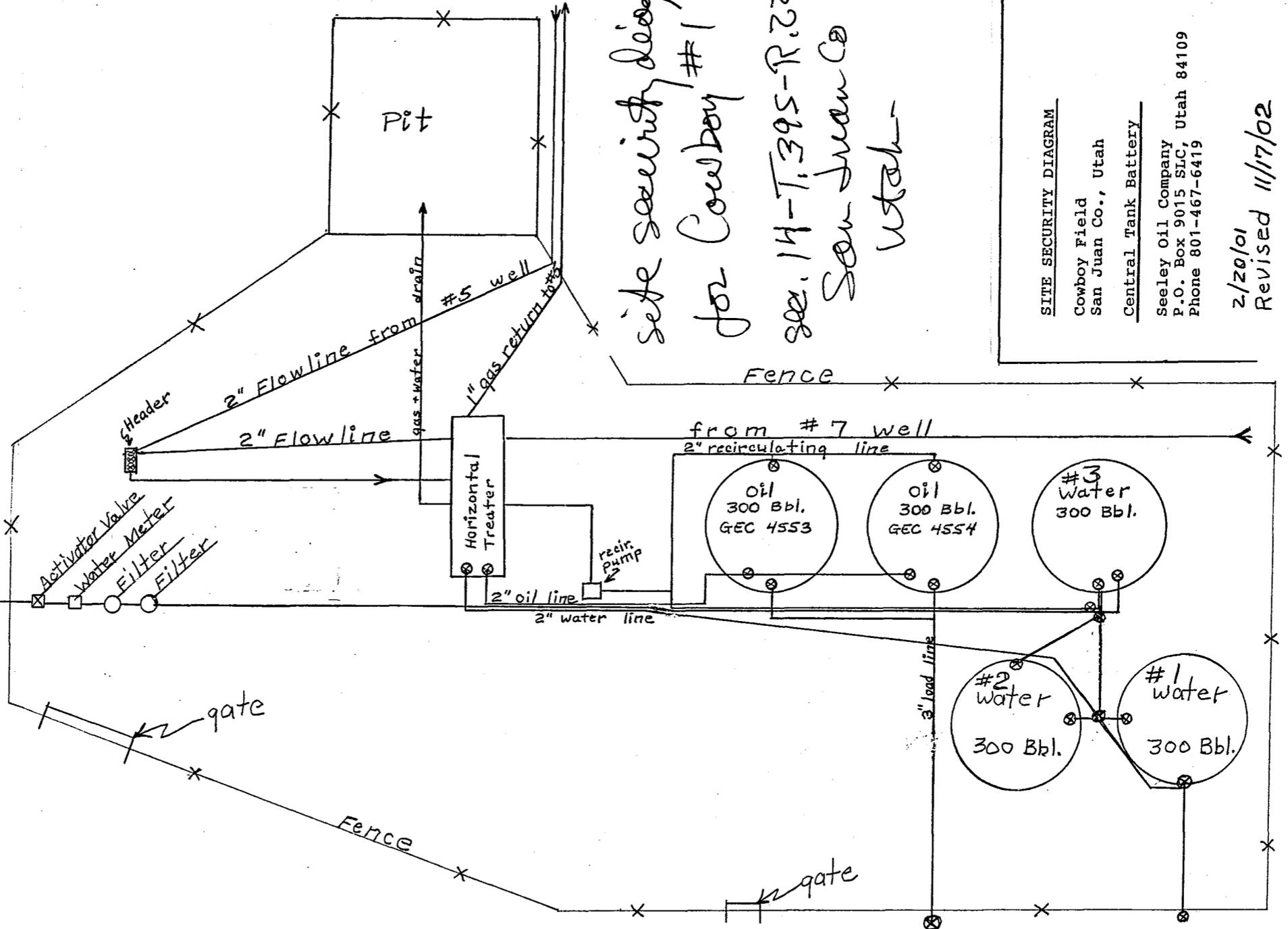
Randall H. H.
B.K. Seaton
A. Brown - Bur
Copy Extra
5-22-02

RECEIVED

NOV 19 2002

DIVISION OF
OIL, GAS AND MINING

Cowboy
#1 well

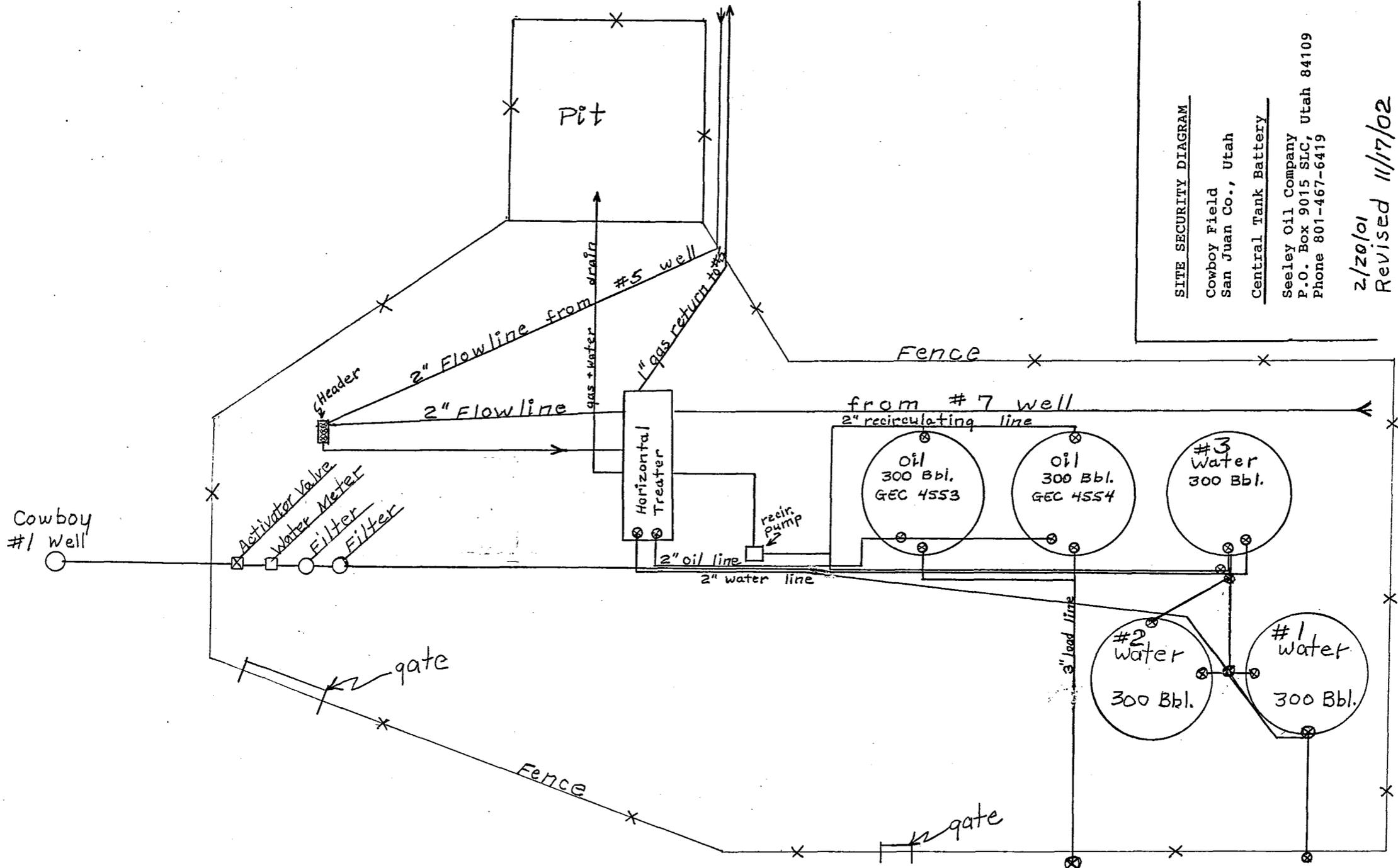


site security design
for Cowboy #1
sec. 14-T, 39S-R, 22E
San Juan Co
Utah

SITE SECURITY DIAGRAM

Cowboy Field
San Juan Co., Utah
Central Tank Battery
Seeley Oil Company
P.O. Box 9015 SLC, Utah 84109
Phone 801-467-6419

2/20/01
Revised 11/17/02



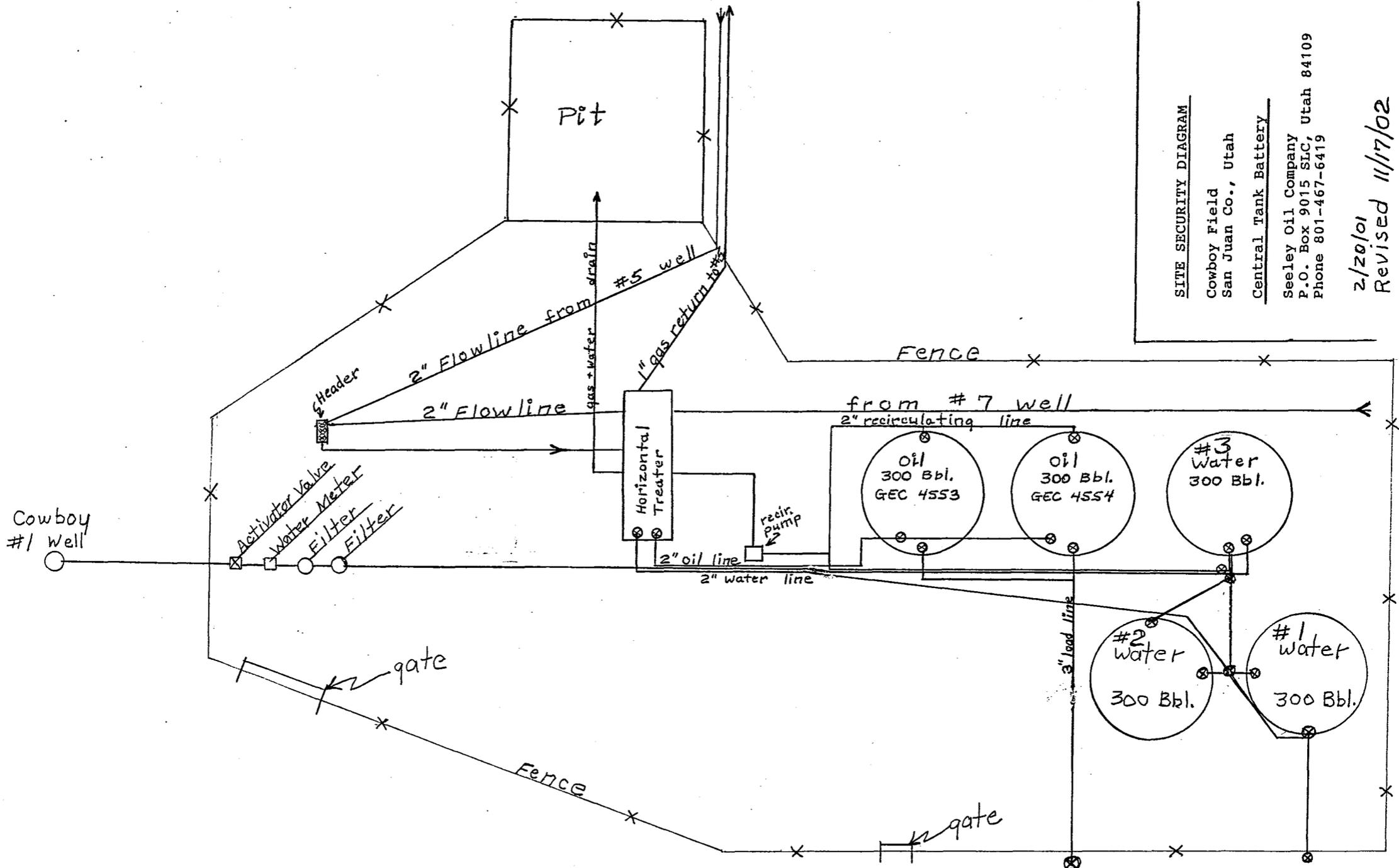
SITE SECURITY DIAGRAM

Cowboy Field
San Juan Co., Utah

Central Tank Battery

Seeley Oil Company
P.O. Box 9015 SLC, Utah 84109
Phone 801-467-6419

2/20/01
Revised 11/17/02



SITE SECURITY DIAGRAM

Cowboy Field
San Juan Co., Utah

Central Tank Battery

Seeley Oil Company
P.O. Box 9015 SLC, Utah 84109
Phone 801-467-6419

2/20/01
Revised 11/17/02

Stantec Consulting Inc.
3995 South 700 East Suite 300
Salt Lake City UT 84107
Tel: (801) 261-0090 Fax: (801) 266-1671
stantec.com



Stantec

December 17, 2002

Mr. Mike Hebertson
Utah Division of Oil, Gas, and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Revised Application for Injection Well – UIC Form 1
Seeley Oil Company Cowboy #1
NW SW of Section 14, Township 39 South, Range 22 East
San Juan County, Utah

Dear Mr. Hebertson:

On behalf of Seeley Oil Company, Stantec Consulting presents the following submittals in support of Seeley's application for injection well:

Revised UIC Form 1

Cross-section through the proposed injection well and offsetting wells. Also included are a cross section index map and some notes regarding shale units above the proposed injection zone.

It is Stantec's understanding that Seeley Oil and the BLM are in discussions regarding the need (or not) for a right-of-way; and that Seeley Oil will forward appropriate documentation if a right-of-way is needed or an affidavit stating that a right-of-way is not needed. Wells from which Seeley Oil may take water will be listed.

Stantec understands that receipt of this information will enable the injection permit to be finalized. For questions or comments, please contact me or Kim Seeley with Seeley Oil at 801-467-6419.

Sincerely,

Stantec Consulting Inc.

David R. Friz
David R. Friz, R.G., P.G.
Senior Project Manager

cc: B.K. Seeley, Jr.

Attachments: as noted

RECEIVED

DEC 23 2002

DIV. OF OIL, GAS & MINING

Buildings

Environment

Industrial

Transportation

Urban Land

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

UIC FORM 1

APPLICATION FOR INJECTION WELL

Name of Operator Seeley Oil Company	Utah Account Number N	Well Name and Number Cowboy #1
Address of Operator P.O. Box 9015 City Salt Lake City State UT Zip 84109	Phone Number 801-467-6419	API Number 43-037-30012
Location of Well Footage: 1980' FSL & 660' FWL County: San Juan QQ, Section, Township, Range: NW SW, Sec 14, T39S, R22E State: UTAH		Field or Unit Name Cowboy Field Lease Designation and Number U-14534

Is this application for expansion of an existing project? Yes No

Will the proposed well be used for:	Enhanced Recovery?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Disposal?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Storage?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Is this application for a new well to be drilled? Yes No

If this application is for an existing well, has a casing test been performed? Yes No
Date of test: 8/16/02

Proposed injection interval: from 5760 to 5800

Proposed maximum injection: rate 250 BWPD bpd pressure 500 psig

Proposed injection zone contains oil , gas , and/or fresh water within 1/2 mile of the well.

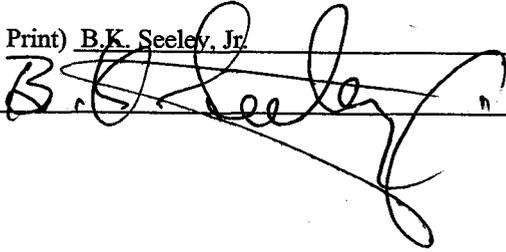
List of attachments: _____

**ATTACH ADDITIONAL INFORMATION AS REQUIRED BY CURENT
UTAH OIL AND GAS CONSERVATION GENERAL RULES**

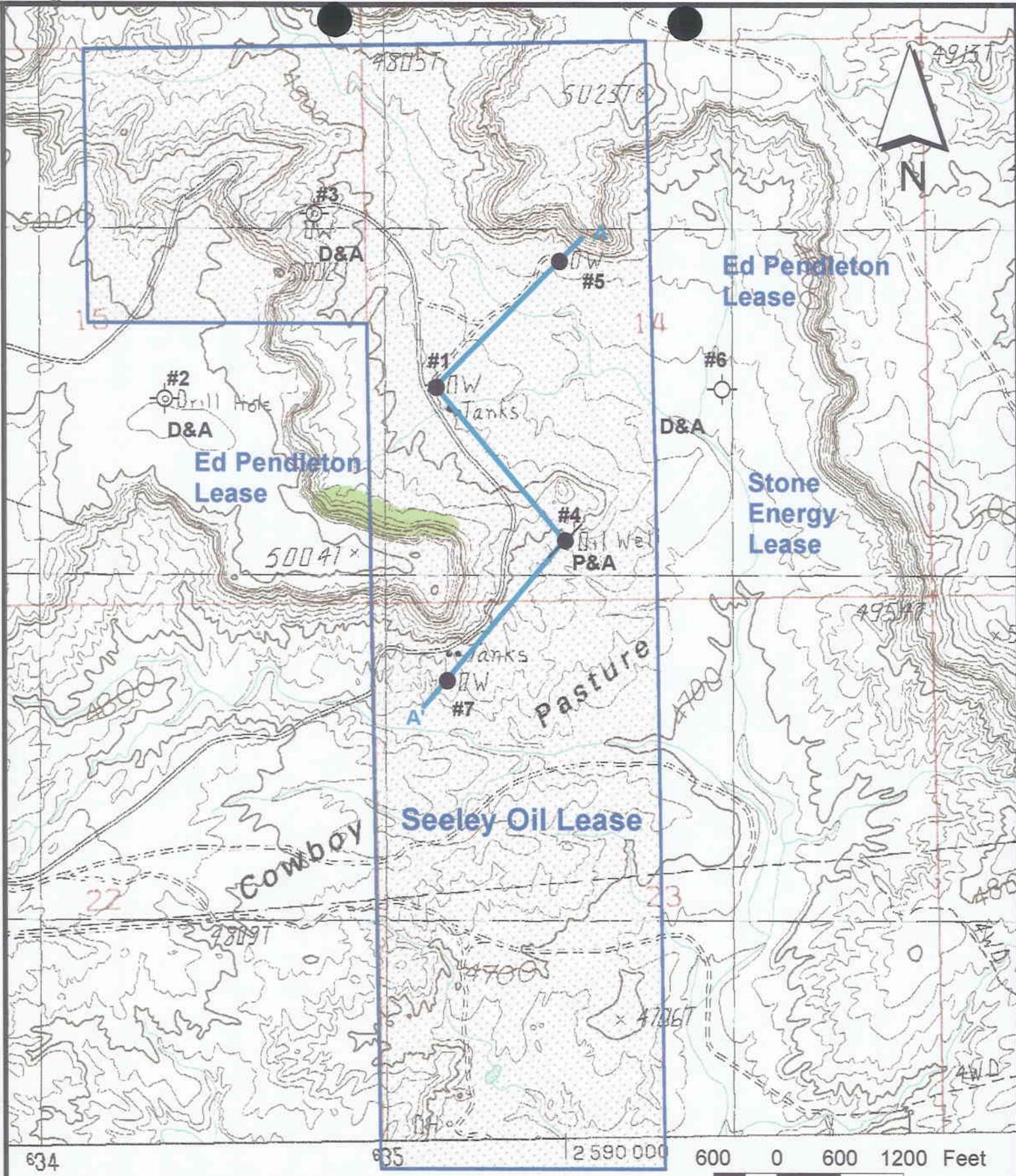
I hereby certify that this report is true and complete to the best of my knowledge.

Name (Please Print) B.K. Seeley, Jr.

Title Owner

Signature 

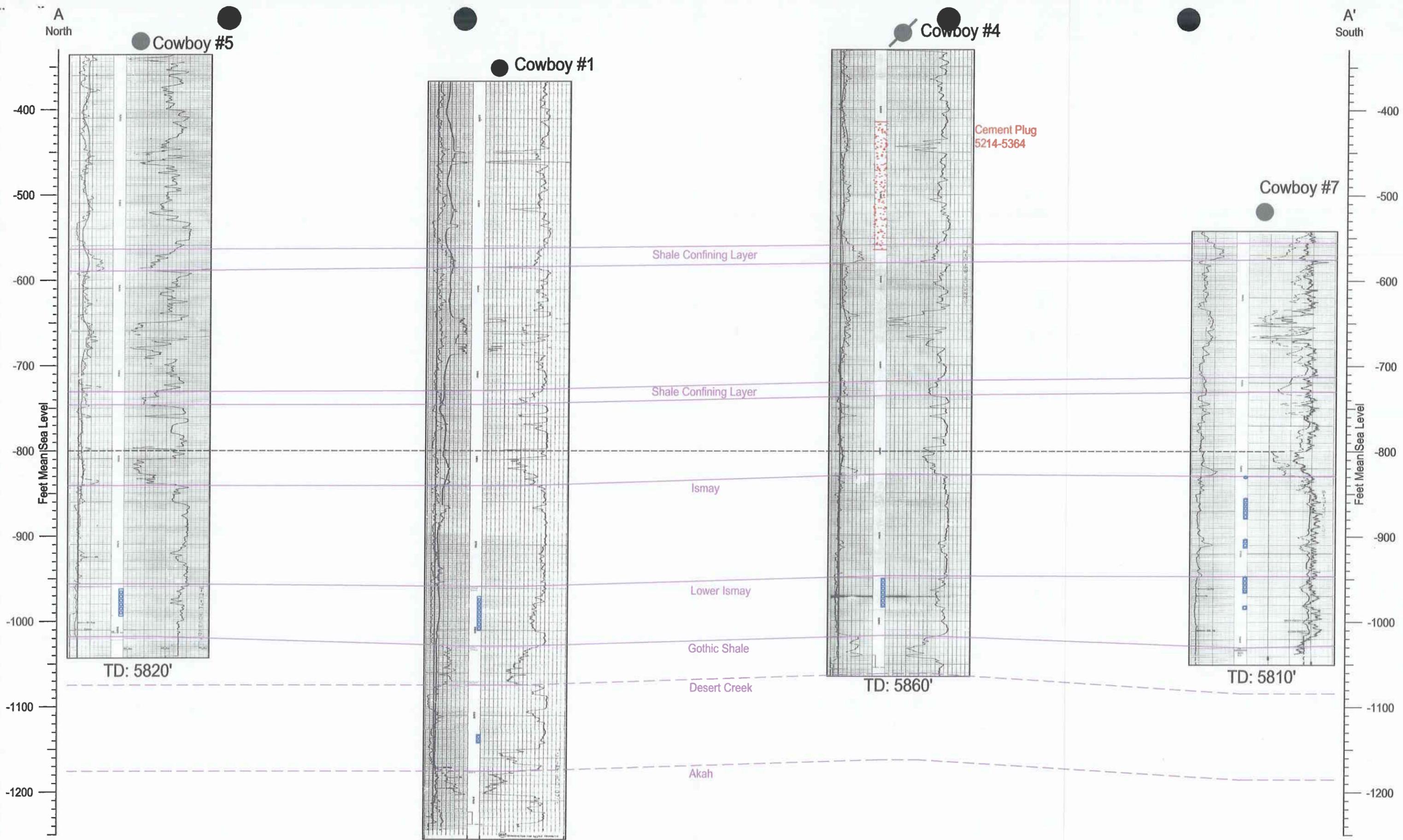
Date 12/14/02



UNITED STATES GEOLOGICAL SURVEY

Cowboy Field Cross-Section Index
 Sec. 14, T.39 S., R.22 E.
 San Juan County, Utah

Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109



Cowboy Field Cross-Section A-A'
 Sections 14, 15, 23, T.39 S., R.22 E.
 San Juan County, Utah

vert: 1 in = 100 ft
 horz: 1 in = 2000 ft

Seeley Oil Company
 P.O. Box 9015
 Salt Lake City, Utah 84109

Cowboy Field Cross-Section A-A' Notes

Geophysical logs for Cowboy 1, 4, 5, and 7 were used to construct the cross-section.

Formation tops for the Ismay, Lower Ismay, Gothic Shale, Desert Creek, and Akah are shown.

Two shale beds above the Ismay are shown. The shales are located 5352'-5370' and 5418'-5436' below the ground surface in Cowboy #1. These shales appear to be thick enough and laterally continuous enough to act as confining beds.

The stratigraphy above the interval presented on the cross section contains additional impermeable formations that would act as confining beds. These formations include:

The Chinle Formation, which consists of shale, siltstone and minor sandstone, is approximately 700 feet thick, and occurs approximately between 1,746 and 2476 feet below the ground surface.

The Moenkopi Formation, which consists of shale and siltstone, is approximately 300 feet thick, and occurs approximately between 2,534 and 2,830 feet below the ground surface.

The Cutler Evaporites, which consist of salt, anhydrite and shale, are approximately 800 feet thick, and occur approximately between 3,611 and 4,806 feet below the ground surface.

Based on the lithology of these formations, the rocks would be too impermeable to transmit fluids, and are thick enough and laterally continuous enough to act as confining beds.

The Navajo Sandstone, is a source of groundwater in the area. The Navajo is separated by more than 4,000 feet of rock, much of which is impermeable, from the proposed injection zone. Based on this information, it appears that the Navajo is reasonably protected from injection fluids.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab Field Office
82 East Dogwood
Moab, Utah 84532

3160
UTU0145834
(UT-062)

JAN 17 2003

Mr. Kim Seeley
Seeley Oil Company
P. O. Box 9015
Salt Lake City, Utah 84109

Re: Disposal of Produced Water
Cowboy No. 1 Well
Lease UTU0145834
Section 14, T39S, R22E
San Juan County, Utah

RECEIVED

JAN 22 2003

DIV. OF OIL, GAS & MINING

Dear Mr. Seeley:

We are in receipt of your sundry notice requests to dispose of produced water from several of your properties into the Cowboy No. 1 Well. We are aware that you have been working with the State of Utah Division of Oil, Gas and Mining (DOG M) for some time in pursuit of an Underground Injection Control (UIC) permit for this well. However, you may not be aware of two authorizations through the Bureau of Land Management (BLM) that are also necessary.

Because you intend to dispose of produced water from off-lease sources, that is, from wells that are not on the same lease as the Cowboy No. 1 Well (UTU0145834), a right-of-way authorization is necessary. This type of authorization would be processed by the BLM Monticello Field Office. Maxine Deeter of that office will be able to answer any questions you might have regarding the application process. She can be reached at 435-587-1522.

Additionally, you will need to submit a sundry notice request to convert the Cowboy No. 1 from an oil well to a water disposal well. You have already provided much of the necessary technical information in earlier submissions. As such, the request, including a brief description of mechanical modifications to the well and surface facilities that will be used, will be satisfactory.

We will retain your above mentioned sundry notices requesting to dispose of produced water in anticipation of your acquiring a right-of-way for the use of the Cowboy No. 1 as a disposal well. To process the sundry notices, we will also need you to submit a copy of the UIC permit for the Cowboy No. 1 Well.

In summary, conversion of the Cowboy No. 1 from an oil well to a disposal well, which accepts produced water from off-lease sources, requires three separate authorizations: 1) a UIC permit from the DOGM; 2) a sundry notice authorizing (by BLM) abandonment of the reservoir and conversion to disposal; and 3) a right-of-way from BLM, because the proposed use of the well is beyond the rights provided for in the oil and gas lease.

Should you have any questions regarding your sundry notice requests, please call Eric Jones at 435-259-2117. For matters regarding rights-of-way, please call Maxine Deeter.

Sincerely,

/s/ William Stringer

Assistant Field Manager
Division of Resources

cc: Utah Division of Oil, Gas and Mining (UIC)

UT-090, MDeeter
Well Files: UTU0145834,
UTU37841,
UTU23147,
UTU49692,
UTU52026,
SL-067696,
State Well File

Cowboy No. 7 and Cowboy No. 5
Recapture Pocket No. 5
Recapture Pocket No. 1
Black Bull No. 31-C (Black Bull Unit)
Turner Bluff No. 1-25A
Norwood No. 1
Recapture State No. 7

EJones:mm:1/7/02.seeley.cowboy.row.let



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
(801) 538-5340 telephone
(801) 359-3940 fax
(801) 538-7223 TTY
www.nr.utah.gov

Michael O. Leavitt
Governor

Robert L. Morgan
Executive Director

Lowell P. Braxton
Division Director

February 18, 2003

Seeley Oil Company
P.O. Box 9015
Salt Lake City, Utah 84109

Re: Injection Permit, Cowboy #1 Sec. 14, T39S, R22E, San Juan, County, Utah

Mr. Seeley:

Seeley Oil was issued a Conversion Approval on April 3, 2002 for the referenced well. The Conversion Approval is not a permit to inject, however it does allow limited injection until all of the conditions for a permit have been met.

Approval item 3 stipulates, if necessary, a BLM Right-of-Way (ROW) will be obtained. BLM issued a letter on January 17, 2003 indicating the well did need a ROW, and Maxine Deeter, of their Monticello Office, would process application. To date, no ROW application has been received by BLM.

On November 19, 2002, the Division of Oil, Gas and Mining ("the Division") received injection information for September and October from Seeley Oil indicating that injection of fluids had been performed. Records also indicate that injection in November and December has occurred.

Seeley Oil has not fully complied with the Conversion Approval, and ongoing operations are beyond the anticipated limits of the approval. You are hereby notified that you have **two weeks** from the date you receive this letter to provide the Division with evidence of your ROW application. If at the end of this period the Division has not received evidence of your ROW application, you will be ordered to immediately cease all injection operations for this well, and it shall remain shut-in until such time as all of the Conversion Approval stipulations have been met.

Questions regarding this matter can be directed to Mike Hebertson at 801-538-5333, or Gil Hunt at 801-538-5297. Questions regarding your Right-of-Way application, call Maxine Deeter at the BLM Monticello Office.

Sincerely

K. Michael Hebertson
Reclamation Specialist

er
cc: Bureau of Land Management, Monticello Field Office

Seeley Oil Company

DE BENEVILLE K. SEELEY, JR.
OWNERPOST OFFICE BOX 9018
SALT LAKE CITY, UT 84108-0018
OFFICE (801) 467 - 6419
FAX (801) 278 - 9755
MOBILE (801) 541 - 2772TO: Mike HebertsonFAX # 801-359-3940FROM: B.K. Seeley Jr.DATE: March 3, 2003NUMBER OF PAGES: 1

We applied for right-of-way for our proposed Cowboy #1 disposal well by fax to Maxine Decker of the BLM on Feb. 18, 2003.

By phone today she informs me that it will take until the end of this month to finish processing our application. We shall forward appropriate paperwork to you as soon as possible.

As a footnote, I should mention as of the first of the year we changed our name. Therefore, our well permit should be issued as:

Seeley Oil Company, LLC.
Thank you, and I shall be back in touch,
Kim - eff (1-9-03)

If you have received this transmission in error, please notify us immediately at our telephone number listed above.

RECEIVED

MAR 03 2003

DIV. OF OIL, GAS & MINING

Form 9-221 (May 1983)

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 [] GAS WELL [] OTHER [] All oil + gas wells
2. NAME OF OPERATOR Seeley Oil Company, LLC.
3. ADDRESS OF OPERATOR P.O. Box 9015, S. L. C., Utah 84109
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) See also space 17 below. At surface
14. PERMIT NO.
15. ELEVATIONS (Show whether DF, ST, OR, etc.)
12. COUNTY OR PARISH
13. STATE

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data
NOTICE OF INTENTION TO: TEST WATER SHUT-OFF [] FULL OR ALTER CASING [] WATER SHUT-OFF []
FRACTURE TREAT [] MULTIPLE COMPLETE [] FRACTURE TREATMENT []
SHOOT OR ACIDISE [] ABANDON* [] SHOOTING OR ACIDIZING []
REPAIR WELL [] CHANGE PLANS [] (Other) []
SUBSEQUENT REPORT OF: REPAIRING WELL []
ALTERING CASING []
ABANDONMENT* []
(Other) []
(Notes: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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

this is to inform you that effective with January 2003 we changed our name from "B.K. Seeley Jr. dba Seeley oil Company" To: Seeley oil Company, L.L.C. Please change your well records to reflect this change.

RECEIVED MAR 03 2003 DIV. OF OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct. SIGNED B.K. Seeley Jr. TITLE Member DATE 3/03/03

APPROVED BY CONDITIONS OF APPROVAL, IF ANY: TITLE DATE

*See Instructions on Reverse Side



Ted Boyer
Executive Director
Department of Commerce

Michael O. Leavitt
Governor
State of Utah

Kathy Berg
Director
Division of Corporations
& Commercial Code

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

DE BENNEVILLE K SEELEY, JR
SEELEY OIL COMPANY LLC
3964 S SUMMERSPRING LANE
SALT LAKE CITY UT 84124

MAR 03 2003
DIV. OF OIL, GAS & MINING



State of Utah
Department of Commerce
Division of Corporations & Commercial Code

CERTIFICATE OF REGISTRATION

LLC - Domestic

This certifies that SEELEY OIL COMPANY LLC has been filed and approved on January 09, 2003 and has been issued the registration number 5260313-0160 in the office of the Division and hereby issues this Certification thereof.

KATHY BERG
Division Director

RECEIVED

MAR 03 2003

DIV. OF OIL, GAS & MINING

well_name	section	township	range	api	entity	lease_type	status	well_type
STATE 36-13	36	15S	12E	43-007-30084	6430	STATE	S	OW
GRASSY TRAIL 36-2	36	15S	12E	43-007-30103	9577	STATE	S	OW
FEDERAL 35-44	35	15S	12E	43-007-30108	99998	FEDERAL	PA	NA

FEDERAL 1	01	16S	12E	43-015-15604	635	FEDERAL	TA	OW
FEDERAL 2	01	16S	12E	43-015-15607	635	FEDERAL	TA	OW
FEDERAL 1-14	01	16S	12E	43-015-30180	9575	FEDERAL	S	OW
STATE 2-43X	02	16S	12E	43-015-30100	6440	STATE	S	OW
STATE 2-23	02	16S	12E	43-015-30111	99990	STATE	I	WD
FEDERAL 3-23	03	16S	12E	43-015-30127	99998	FEDERAL	PA	D
FEDERAL 4-32	04	16S	12E	43-015-30121	6460	FEDERAL	S	OW
FEDERAL 11-33	11	16S	12E	43-015-30097	6435	FEDERAL	P	OW
FEDERAL 11-41	11	16S	12E	43-015-30118	6450	FEDERAL	S	OW
FEDERAL 11-13	11	16S	12E	43-015-30120	6455	FEDERAL	S	OW
FEDERAL 11-11	11	16S	12E	43-015-30149	6490	FEDERAL	S	OW
FEDERAL 11-42	11	16S	12E	43-015-30167	6495	FEDERAL	P	OW
FEDERAL 11-23	11	16S	12E	43-015-30170	6500	FEDERAL	S	OW
FEDERAL 11-43	11	16S	12E	43-015-30172	6431	FEDERAL	S	OW
FEDERAL 12-13	12	16S	12E	43-015-30142	6485	FEDERAL	S	OW
FEDERAL 12-32	12	16S	12E	43-015-30184	9576	FEDERAL	S	OW
FEDERAL 14-11	14	16S	12E	43-015-30138	6475	FEDERAL	S	OW
FEDERAL 6-14	06	16S	13E	43-015-30187	99998	FEDERAL	LA	OW

BONNIE FEDERAL 11-14	14	37S	23E	43-037-31290	10694	FEDERAL	P	OW
BONNIE FEDERAL 33-14	14	37S	23E	43-037-31316	10757	FEDERAL	PA	GW
BONNIE FEDERAL 43-14	14	37S	23E	43-037-31364	10757	FEDERAL	P	OW
BONNIE FEDERAL 22-14	14	37S	23E	43-037-31367	10694	FEDERAL	P	GW

BLACK BULL FEDERAL 31C	31	38S	25E	43-037-31663	11352	FEDERAL	S	GW
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COWBOY 1	14	39S	22E	43-037-30012	2530	FEDERAL	S	OW
COWBOY 4	14	39S	22E	43-037-30037	2530	FEDERAL	PA	OW
COWBOY 5	14	39S	22E	43-037-30062	2530	FEDERAL	P	OW
COWBOY 7	23	39S	22E	43-037-30325	2530	FEDERAL	P	OW

RECAPTURE PCKT ST 7	02	40S	22E	43-037-30701	2790	STATE	P	OW
RECAPTURE POCKET 1	03	40S	22E	43-037-30625	2780	FEDERAL	S	OW
RECAPTURE POCKET 5	10	40S	22E	43-037-30689	2785	FEDERAL	P	OW
GOVT NORWOOD 1	15	40S	22E	43-037-15611	985	FEDERAL	P	OW
1-25A KGS FEDERAL	25	40S	22E	43-037-30906	10025	FEDERAL	S	OW

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW ✓
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective: **1-9-03**

FROM: (Old Operator):	TO: (New Operator):
SEELEY OIL COMPANY	SEELEY OIL COMPANY LLC
Address: P O BOX 9015	Address: P O BOX 9015
SALT LAKE CITY, UT 84109	SALT LAKE CITY, UT 84109
Phone: 1-(801)-467-6419	Phone: 1-(801)-467-6419
Account No. N2880	Account No. N2355

CA No.

Unit:

WELL(S)	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
FEDERAL 6-14	06-15S-13E	43-015-30187	99998	FEDERAL	OW	LA
BONNIE FEDERAL 11-14	14-37S-23E	43-037-31290	10694	FEDERAL	OW	P
BONNIE FEDERAL 33-14	14-37S-23E	43-037-31316	10757	FEDERAL	GW	PA
BONNIE FEDERAL 43-14	14-37S-23E	43-037-31364	10757	FEDERAL	OW	P
BONNIE FEDERAL 22-14	14-37S-23E	43-037-31367	10694	FEDERAL	GW	P
COWBOY 1	14-39S-22E	43-037-30012	2530	FEDERAL	OW	S
COWBOY 4	14-39S-22E	43-037-30037	2530	FEDERAL	OW	PA
COWBOY 5	14-39S-22E	43-037-30062	2530	FEDERAL	OW	P
COWBOY 7	23-39S-22E	43-037-30325	2530	FEDERAL	OW	P
RECAPTURE POCKET STATE 7	02-40S-22E	43-037-30701	2790	STATE	OW	P
RECAPTURE POCKET 1	03-40S-22E	43-037-30625	2780	FEDERAL	OW	S
RECAPTURE POCKET 5	10-40S-22E	43-037-30689	2785	FEDERAL	OW	P
GOV'T NORWOOD 1	15-40S-22E	43-037-15611	985	FEDERAL	OW	P
1-25A KGS FEDERAL (CA-000232)	25-40S-22E	43-037-30906	10025	FEDERAL	OW	S

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 03/03/2003
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 03/03/2003
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 03/03/2003
- Is the new operator registered in the State of Utah: YES Business Number: 5260313-0160
- If **NO**, the operator was contacted on: _____

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

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 01/14/2003

8. **Federal and Indian Units:**

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

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

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

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

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 03/04/2003
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 03/04/2003
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: 1063820156428

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 0692

INDIAN WELL(S) BOND VERIFICATION:

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

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

- r. The authorized officer of the BLM, Monticello Field Office, shall be notified within 24 hours of any unauthorized discharge of oil or other pollutant.
- s. Plugging instructions must be obtained from the Monticello Field Office a minimum of 48 hours prior to initiating plugging operations. The plugging must be witnessed by BLM personnel. Plugging must ensure the long term protection of all potential water aquifers and any potential mineral zones. A subsequent report of abandonment shall be filed with the Monticello Field Office within 30 days following abandonment. The report will document specifics of plug placement and down hole conditions.
- t. Upon relinquishment of the right-of-way, the holder will remove surfacing material (i.e. gravel, roadbase) and recontour disturbed areas or designated sections of the right-of-way by grading or by adding topsoil, to restore the site to approximately the original contour of the ground as determined by the authorized officer.
- u. The holder shall seed all disturbed areas, using an agreed upon method suitable for the location. Seeding shall be repeated if a satisfactory stand is not obtained as determined by the authorizing officer upon evaluation after the second growing season.

IN WITNESS WHEREOF, The undersigned agrees to the terms and conditions of this right-of-way grant or permit.

<u>Seeley Oil Company LLC</u> (Signature of Holder)	<u>Robert Madigan</u> (Signature of Authorized Officer)
<u>By B.K. Seeley, member</u> (Title)	<u>Field Office Manager</u> (Title)
<u>4/23/03</u> (Date)	<u>4-23-03</u> (Date)

DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT
STATEMENT OF BASIS

Applicant: Seeley Oil Company

Well: Cowboy #1

Location: Sec. 14, T 39 S, R 22 E San Juan County

API: 43-037-30012

Ownership Issues:

Seeley Oil Company is the leaseholder of the federal lease and operator of the well that is to be converted for water disposal. The company has notified all of the surface, mineral owners, and other operators within a half-mile radius of this well, they being Ed Pendleton, Stone Energy, and the Bureau of Land Management. The notice has been published in The San Juan Record, the Salt Lake Tribune, and the Deseret News. There were no objections received concerning this proposed conversion.

Well Integrity:

The well is equipped with two strings of pipe which have been cemented in place in the following order:

Surface Casing: 537', 10 3/4", 32.75 lb/Ft, Cemented to surface with 375 sacks of cement.

Production Casing: 6031' 5 1/2", 17Lb/Ft plugged back to 5992'. Cemented with 477 sacks of cement in a 7 7/8" hole. To fill the annular volume as suggested in the submitted drawing, the yield per sack of cement, with no excess or washouts calculated, would need to be 2.189 cubic feet per sack. A Cement Bond Log was run on 16-Aug-2002.

Ground Water Protection:

The geology for this location indicates that the Navajo formation is the most likely candidate in this locality to be a source of underground drinking water. The Navajo was encountered at either 721' or 748' in this well as reported in two separate documents, and no water was reported in the entire interval down to the top of the Chinle at 1,746' or 1,740' as reported in the same two documents. No water was reported as encountered in any of near surface sands while drilling. In the day and time that this well was drilled the concern for

protection of near surface waters was not as pertinent to completion as is the case now. Seeley Oil has run a bond log on this well to prove cement tops and isolation of the possible fresh water zones. The base of the moderately saline ground waters in this area should be about 2,700', in the Chinle Formation. This is projected from the generalized map found in technical publication No. 94, Base Of Moderately Saline Ground Water In San Juan County, Utah. Other possible aquifers are the Entrada, and Carmel above the Navajo, and the Kayenta, Moenave, Wingate, Chinle, Moenkopi, Cutler Group, and Rico below the Navajo. However, locally, the quality of the water below Township 35 South is moderately saline to briny in the Navajo, Entrada and Carmel formations.

Six aquifer systems have been described in San Juan County, ~~and all of the rock formations in the county contain water to some degree~~. From oldest to youngest the aquifer groups are the Redwall, consisting of the Leadville Limestone, Molas, and Pinkerton Trail Formations. The P Aquifer, consisting of the Rico, Honaker Trail, and Hermosa Group. C Aquifer, consists of the DeChelly Sand of the Cutler Group, and is generally present only south of the San Juan River. The N Aquifer, made up of the Wingate Sandstone, the Kayenta Formation, the Navajo Sandstone, the Carmel Formation, and the Entrada Formation. The Navajo portion of this group can yield up to 170 gallons per minute of water. The M Aquifer, consisting of the Bluff Sandstone, Salt Wash, Recapture and Westwater Members of the Morrison Formation. The D Aquifer, consists of the Burro Canyon Formation and the Dakota Sandstone. This aquifer is not a consideration for this location as it is not present.

The Navajo Sandstone formation water quality at the subject well was not tested at the time of drilling and no water flows were reported during the drilling phase of this well. It is therefore unknown what the actual aquifer water quality at this location is.

Within 20,000 feet of the injection well there are 12 points of diversion ranging from active springs and underground wells to surface diversions. Five of the twelve diversions are wells completed in the Navajo section between 300 and 1350 feet deep, and ranging in distance from the proposed well between 2,700' and 9,700'. The nearest point of diversion is a well that is 2,700 feet to the southwest. It is a 6" pipe of unknown depth and flows .015 CFS. It is possible that cement does not cover the fresh water aquifer of the Navajo, should the cement above the injection zone fail, fluids could migrate up the wellbore to this zone. It is not expected that this would occur and injection pressures will be kept at a low to nearly 0 pressure in this well. This will lower

the risk of water migration up hole ever happening. An explanation of the pressure limitations will be undertaken herein.

The intended zones of injection are the Ismay and Desert Creek members of the Paradox Formation. This is a structural feature known as an algal mound and is its own contained reservoir. It has been voided, by production of Oil, Gas and Water, of a percentage of its original volume. The volume withdrawn from this structure is approximately 230,000 barrels equivalent of total fluids. The original Oil in place is calculated to be 1,167,932 stock tank barrels. Accordingly some 20% of the original Oil in place has been recovered. The well is now on vacuum and produces no Oil, Water, or Gas. The injection pressures applied for were reduced so as not to exceed the original hydrostatic pressure at the time that the well was drilled. By limiting the injection pressure and the amount of fluid disposed of, containment of the fluids should remain within the algal reservoir.

A step-rate test for this well will be necessary, but cannot be run at this time, as there is no pressure currently on the formation in the intended injection zone. The well will be limited to 500 psig surface, a rate not to exceed 250 BBLS on any day, and less than 250,000 BBLS of total injected fluid. Bottomhole pressure is calculated from the pressures gathered at the time DST #2 was run while the well was drilling. The initial hydrostatic pressure was 2,956 PSI and final hydrostatic pressure was 2,946 PSI. *Reservoir*

*53421
11/19/11
DST*

*Reservoir
press from
DST*

The maximum surface injection pressure will be 500 psig. This translates to less than original hydrostatic downhole pressure. The volume being replaced will be ~~less than~~ the volume extracted. It will be necessary for Seeley Oil Company LLC. to apply for a modification of this permit should the well be needed for higher pressure, greater rate, or greater total volume of disposed fluids.

The water to be disposed of in this well will be produced water from other Ismay and Desert Creek production wells in the area. A water sample from the Cowboy #1 Treater was analyzed for Total Dissolved Solids and showed 50,935 mg/L. This is well over the <10,000 mg/L for USDW qualification. Other examples of water that will be injected are over 20,000 mg/L, and may need to be treated for possible scaling problems in order to be compatible.

The new bond log for this well is marginal through the injection zone and is at about 80% ^{is} the zone immediately above the topmost perf at 5,780'. Another zone of moderate to good bonding starts at 5,790' and runs to 5,610', this

Mass bonded intervals at the proposed pressure will contain fluid to approved zone. SHOULD

appears to be the primary zone that can be relied upon to keep fluid from migrating out of zone in this well.

} WEAK STATEMENT?

Oil/Gas & Other Mineral Resources Protection:

The hydrocarbon and mineral resources at this location consist of the Ismay and Desert Creek Members of the Paradox Formation. These two zones have been produced and mostly depleted leaving a void space that the operator wishes to refill with water from other more profitable wells in the area.

Concerns of the BLM and the Division about causing any adverse impacts to the reservoir will be alleviated by restrictions and limitations on the operations of the injection well. The injection program has been restricted to cause little if any impact on the hydrocarbons left in the formation. Low injection pressure, rate, and cumulative disposable volume limitations should minimize the possibility of changing the hydrodynamics of the reservoir.

Bonding:

The Bond for this well is covered under a Federal Drilling Bond held by the Bureau of Land Management for Seeley Oil Company LLC. Also a Federal Right-of-Way has been obtained for the transport of water to the disposal site from off lease production. This is covered by a separate bond. ~~Neither bond number is known.~~

Actions Taken and Further Approvals Needed:

The notice has been published in The San Juan Record, the Salt Lake Tribune, and the Deseret News. There were no objections received concerning this proposed conversion.

The ~~permit~~ ^{approved} to convert was ~~approved~~ ^{issued} April 3, 2002, and required stipulations will be met before the injection ~~approval~~ ^{permit} is issued. The BLM has suggested several stipulations that will accompany the Permit to inject.

} still valid?

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): K. Michael Hebertson Date: 25 - April - 2003

DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT
STATEMENT OF BASIS

Applicant: Seeley Oil Company

Well: Cowboy #1

Location: Sec. 14, T 39 S, R 22 E San Juan County

API: 43-037-30012

Ownership Issues:

Seeley Oil Company is the leaseholder of the federal lease and operator of the well that is to be converted for water disposal. The company has notified all of the surface, mineral owners, and other operators within a half-mile radius of this well, they being Ed Pendleton, Stone Energy, and the Bureau of Land Management. The notice has been published in The San Juan Record, the Salt Lake Tribune, and the Deseret News. There were no objections received concerning this proposed conversion.

Well Integrity:

The well was drilled and completed in 1968, and is equipped with two strings of pipe which have been cemented in place in the following order:

Surface Casing: 537', 10 3/4", H40, 32.75 lb/Ft, Cemented to surface with 375 sacks of cement.

Production Casing: 6031' 5 1/2", 17Lb/Ft plugged back to 5992'. Cemented with 477 sacks of cement in a 7 7/8" hole. To fill the annular volume as suggested in the submitted drawing, the yield per sack of cement, with no excess or washouts calculated, would need to be 2.189 cubic feet per sack. A Cement Bond Log was run on 16-Aug-2002.

Ground Water Protection:

The geology for this location indicates that the Navajo formation is the most likely candidate in this locality to be a source of underground drinking water. The Navajo was encountered at either 721' or 748' in this well as reported in two separate documents, and no water was reported in the entire interval down to the top of the Chinle at 1,746' or 1,740' as reported in the same two documents. No water was reported as encountered in any of near surface sands while drilling. In the day and time that this well was drilled the concern for protection of near

surface waters was not as pertinent to completion as is the case now. Seeley Oil has run a bond log in this well to prove cement tops and isolation of the possible fresh water zones. The base of the moderately saline ground waters in this area should be about 2,700', in the Chinle Formation. This is projected from the generalized map found in technical publication No. 94, Base Of Moderately Saline Ground Water In San Juan County, Utah. Other possible aquifers are the Entrada, and Carmel above the Navajo, and the Kayenta, Moenave, Wingate, Chinle, Moenkopi, Cutler Group, and Rico below the Navajo. However, locally, the quality of the water below Township 35 South is moderately saline to briny in the Navajo, Entrada and Carmel formations.

Six aquifer systems have been described in San Juan County. From oldest to youngest the aquifer groups are the Redwall, consisting of the Leadville Limestone, Molas, and Pinkerton Trail Formations. The P Aquifer, consisting of the Rico, Honaker Trail, and Hermosa Group. C Aquifer, consists of the DeChelly Sand of the Cutler Group, and is generally present only south of the San Juan River. The N Aquifer, made up of the Wingate Sandstone, the Kayenta Formation, the Navajo Sandstone, the Carmel Formation, and the Entrada Formation. The Navajo portion of this group can yield up to 170 gallons per minute of water. The M Aquifer, consisting of the Bluff Sandstone, Salt Wash, Recapture and Westwater Members of the Morrison Formation. The D Aquifer, consists of the Burro Canyon Formation and the Dakota Sandstone. This aquifer is not a consideration for this location as it is not present.

The Navajo Sandstone formation water quality at the subject well was not tested at the time of drilling and no water flows were reported during the drilling phase of this well. It is therefore unknown what the actual aquifer water quality at this location is.

Within 20,000 feet of the injection well there are 12 points of diversion ranging from active springs and underground wells to surface diversions. Five of the twelve diversions are wells completed in the Navajo section between 300 and 1350 feet deep, and ranging in distance from the proposed well between 2,700' and 9,700'. The nearest point of diversion is a well that is 2,700 feet to the southwest. It is a 6" pipe of unknown depth and flows .015 CFS. It is possible that cement does not cover the fresh water aquifer of the Navajo, should the cement above the injection zone fail, fluids could migrate up the wellbore to this zone. It is not expected that this would occur and injection pressures will be kept at a low to nearly 0 pressure in this well. This will lower the risk of water migration up hole ever happening. An explanation of the pressure limitations will be undertaken herein.

The intended zones of injection are the Ismay and Desert Creek members of the Paradox Formation. This is a structural feature known as an algal mound and is its own contained reservoir. It has been voided, by production of Oil, Gas and Water, of a percentage of its original volume. The volume withdrawn from this structure is approximately 230,000 barrels equivalent of total fluids. The original Oil in place is calculated to be 1,167,932 stock tank barrels. Accordingly some 20% of the original Oil in place has been recovered. The well is now on vacuum and produces no Oil, Water, or Gas. The injection pressures applied for were reduced so as not to exceed the original hydrostatic pressure at the time that the well was drilled. By limiting the injection pressure and the amount of fluid disposed of, containment of the fluids should remain within the algal reservoir.

A step-rate test for this well may be necessary at a future date, but cannot be run at this time and is not necessary, as there is no pressure currently on the formation in the intended injection zone. The well will be limited to 500 psig surface, a rate not to exceed 250 BBLs on any day, and less than 250,000 BBLs of total injected fluid. Bottom hole pressure is calculated from the pressures gathered at the time DST #2 was run while the well was drilling. The initial reservoir pressure was 2,956 PSI and final reservoir pressure was 2,946 PSI.

The maximum surface injection pressure will be 500 psig. This translates to less than original reservoir pressure. The volume being replaced will be about the volume extracted. It will be necessary for Seeley Oil Company LLC to apply for a modification of this permit should the higher pressure, greater rate, or greater total volume of disposed fluids be needed.

The water to be disposed of in this well will be produced water from other Ismay and Desert Creek production wells in the area. A water sample from the Cowboy #1 Treater was analyzed for Total Dissolved Solids and showed 50,935 mg/L. This is well over the <10,000 mg/L for USDW qualification. Other examples of water that will be injected are over 20,000 mg/L, and may need to be treated for possible scaling problems in order to be compatible.

The new bond log for this well is marginal through the injection zone and is at about 80%. The zone immediately above the topmost perf at 5,780' shows about the amount of bond. Another zone of moderate to good bonding starts at 5,790' and runs to 5,610', this appears to be the primary zone that can be relied upon to keep fluid from migrating out of the injection zone in this well.

Oil/Gas & Other Mineral Resources Protection:

The hydrocarbon and mineral resources at this location consist of the Ismay and Desert Creek Members of the Paradox Formation. These bonded intervals at the proposed pressure should confine fluid to the approved zone.

Concerns of the BLM and the Division about causing any adverse impacts to the reservoir will be alleviated by restrictions and limitations on the operations of the injection well. The injection program has been restricted to cause little if any impact on the hydrocarbons left in the formation. Low injection pressure, rate, and cumulative disposable volume limitations should minimize the possibility of changing the hydrodynamics of the reservoir.

Bonding:

The Bond for this well is covered under a Federal Drilling Bond held by the Bureau of Land Management for Seeley Oil Company LLC. Also a Federal Right-of-Way has been obtained for the transport of water to the disposal site from off lease production. The BLM also holds the Right-of-Way bond.

Actions Taken and Further Approvals Needed:

The notice has been published in The San Juan Record, the Salt Lake Tribune, and the Deseret News. There were no objections received concerning this proposed conversion.

The approval to convert was issued April 3, 2002, and required stipulations will be met before the injection permit is issued.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): K. Michael Hebertson Date: 25 - April - 2003



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
(801) 538-5340 telephone
(801) 359-3940 fax
(801) 538-7223 TTY
www.nr.utah.gov

Michael O. Leavitt
Governor
Robert L. Morgan
Executive Director
Lowell P. Braxton
Division Director

UNDERGROUND INJECTION CONTROL PERMIT

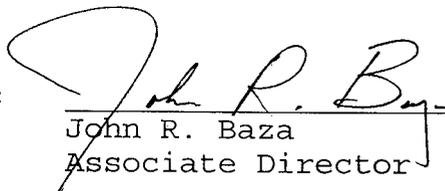
Cause No. UIC-285.1

Operator: Seeley Oil Company LLC.
Wells: Cowboy #1
Location: Section 14, Township 39 South, Range 22 East,
County: San Juan
API No.: 43-037-30012
Well Type: Disposal

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on April 3, 2002.
2. Maximum Allowable Surface Injection Pressure: 500 psig.
3. Maximum Allowable Injection Rate: 250 BWPD or restricted by pressure limitation.
4. Total allowable injection volume not to exceed 250,000 BBLs.
5. Injection Interval: 5,759 feet to 5,800 feet (Ismay, Desert Creek)
6. Monthly injection reports for this well as set forth in R649-8-20 and R649-8-21 is required. Failure to report will result in agency action.

Approved by:


John R. Baza
Associate Director

5/2/2003
Date

KMH/er

cc: Dan Jackson, Environmental Protection Agency
Bureau of Land Management, Moab Field Office
San Juan County Planning

Utah!
Where ideas connect

SCHLUMBERGER**SIDEWALL
NEUTRON POROSITY LOG**

COUNTY SAN JUAN
FIELD or LOCATION WILDCAT
WELL NORTHWEST BLUFF #1
COMPANY MOUNTAIN FUEL

COMPANY MOUNTAIN FUEL SUPPLY COMPANY

WELL NORTHWEST BLUFF #1

FIELD WILDCAT

COUNTY SAN JUAN STATE UTAH

Location: SW SW

Sec. 14 Twp. 39S Rge. 22E

Other Services:
DIL
BHC-GR

Permanent Datum: GL; Elev.: 4777

Log Measured From KB, 12 Ft. Above Perm. Datum

Drilling Measured From KB

Elev.: K.B. 4789
D.F. 4788
G.I. 4777

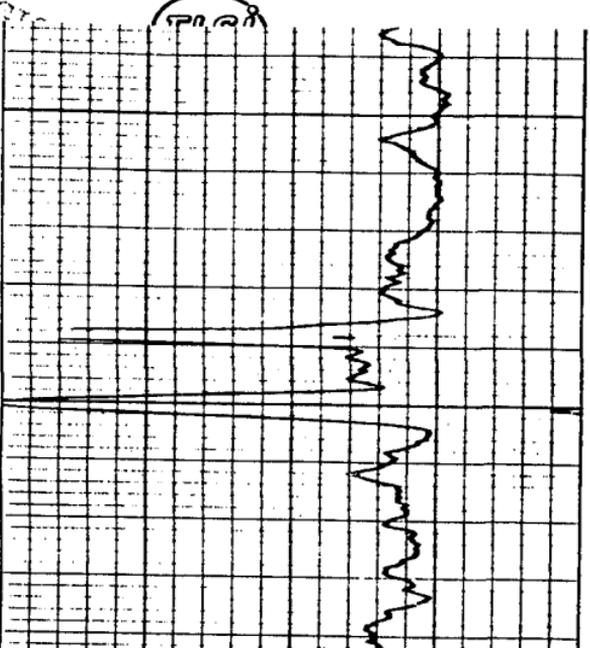
Date	7-6-68
Run No.	ONE
Type Log	SNP
Depth—Driller	6031
Depth—Logger	6029
Bottom logged interval	6028
Top logged interval	4800
Type fluid in hole	GEL
Salinity, PPM Cl.	4200
Density	9.6
Level	FULL
Max rec. temp., deg F.	123
Operating rig time	3 HOURS
Recorded by	RUSEN
Witnessed by	MR. GRAS & MR. ADAMS

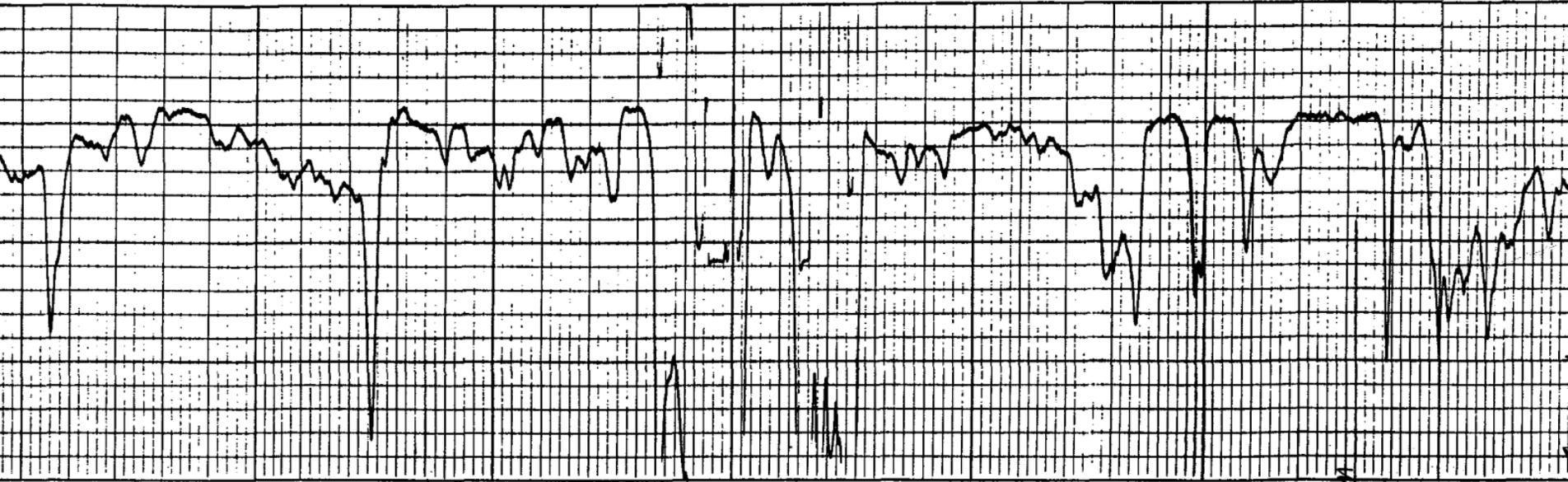
BORE-HOLE RECORD				CASING RECORD			
No.	Bit	From	To	Size	Wgt.	From	To
1	7/8	CSG	TD	10 3/4	-	SURF	537

The well name, location and borehole reference data were furnished by the customer.

NW SW

14. 39S. 22E

 Reproduced By
Electrical Log Services, Inc.
 Mesquite, TEXAS 79781




5300

5400

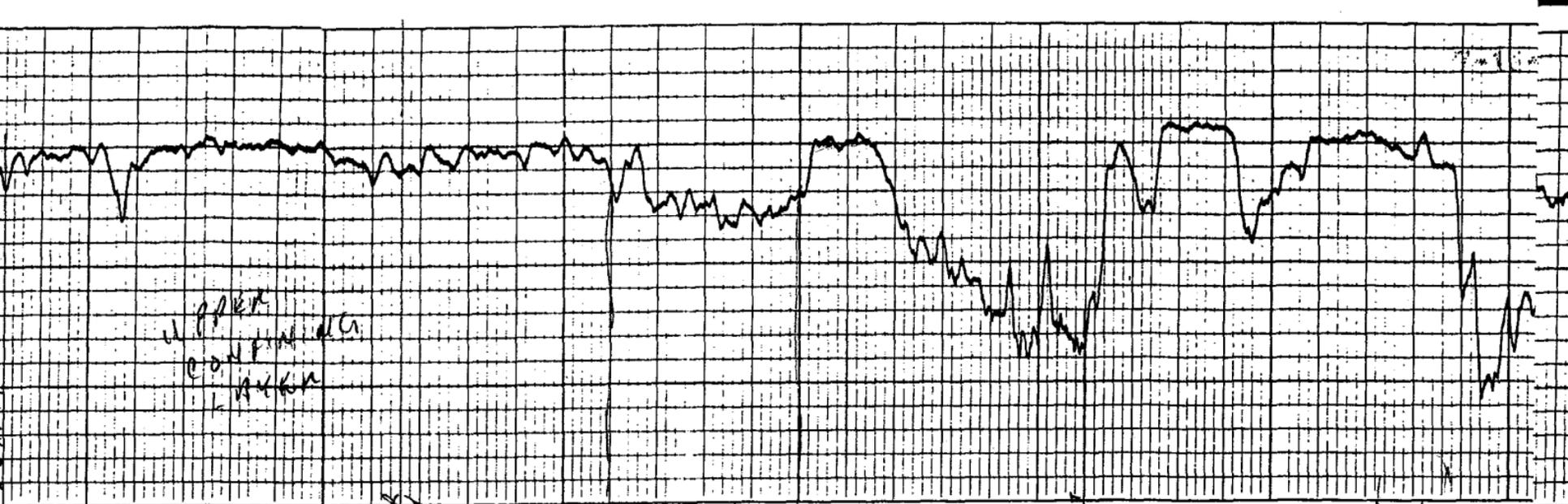
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DATUM

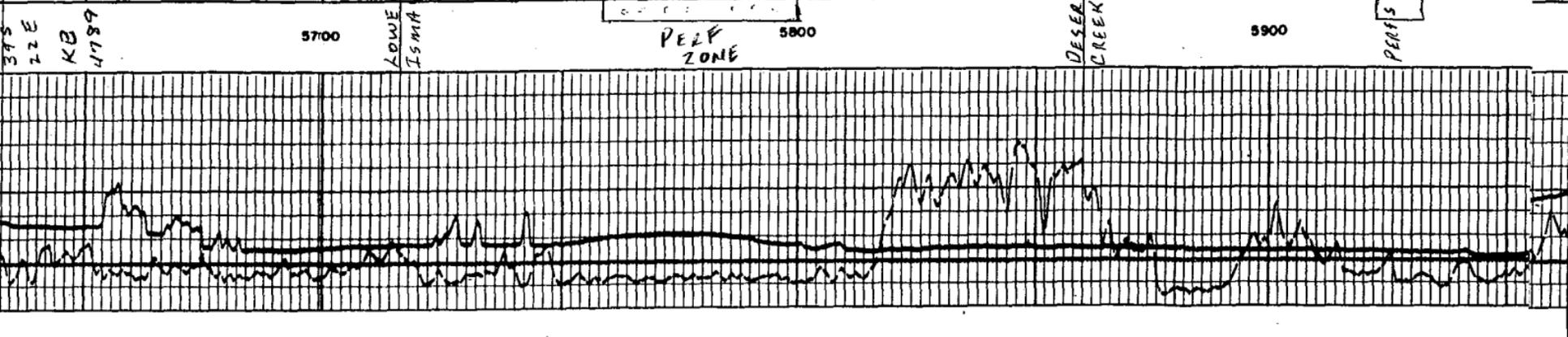
5600

NW
54





UPPER
CONFINED
WATER



375
22 E
KB
4789

5700

LOWER
ISMA

PELF
ZONE

5800

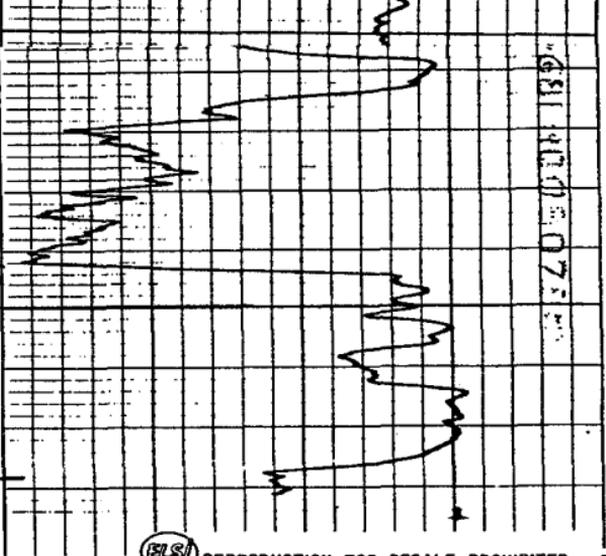
DESEAL
CREEK

5900

PELFS



5300
500
600
F-3



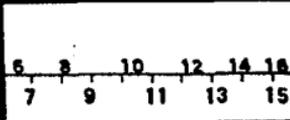
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(BLS) REPRODUCTION FOR RESALE PROHIBITED

#1 14-395-22E

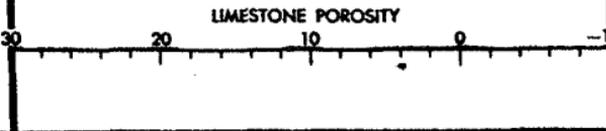
0	200
200	400

GAMMA RAY
API UNITS



CALIPER
HOLE DIAM. IN INCHES

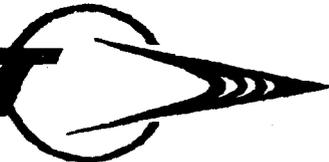
DEPTH



POROSITY (%)

JET WEST

WIRELINE SERVICES

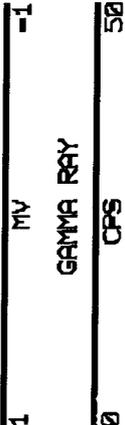


CEMENT BOND/VDL/CCL/GAMMA RAY

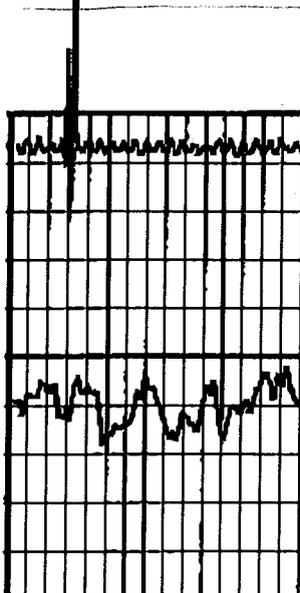
FILING NO.	COMPANY	SEELEY OIL CO.					
	WELL	COWBOY #1					
	FIELD						
	COUNTY	SAN JUAN			STATE UTAH		
LOCATION:		4303730012				OTHER SERV:	
		1980 FSL, 660 FWL				5 1/2" Prod. CSG 17#/ft	
		SEC 14	TWP 39S	RGE 22E			
PERMANENT DATUM:		GROUND LEVEL		ELEV:			
LOG MEASURED FROM		12 FT ABOVE PERM DATUM		ELEVATION:			
DRILLING MEASURED FROM				KB. 4789'			
				DF. 4788'			
				GL. 4777'			
DATE	8-16-02						
RUN NO.	ONE						
DEPTH - DRILLER							
DEPTH - LOGGER	5860'						
BOTTOM LOGGED INT	5852.5'						
TOP LOGGED INT	5400'						
TYPE FLUID IN HOLE	WATER						
SALINITY PPM CL.							
DENSITY							
LEVEL							
MAX TEMP DEG F							
OPERATING RIG TIME							
OPERATOR	THOMASON						
WITNESSED BY	SEELEY						
RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO
1				10-3/4"		SURF.	537'

START DEPTH 5400 FT DATE: 08-16-02 TIME: 10:14a FILE: COW PLAYBACK PROGRAM

COLLAR LOCATOR



GAMMA RAY



PIPE AMPLITUDE

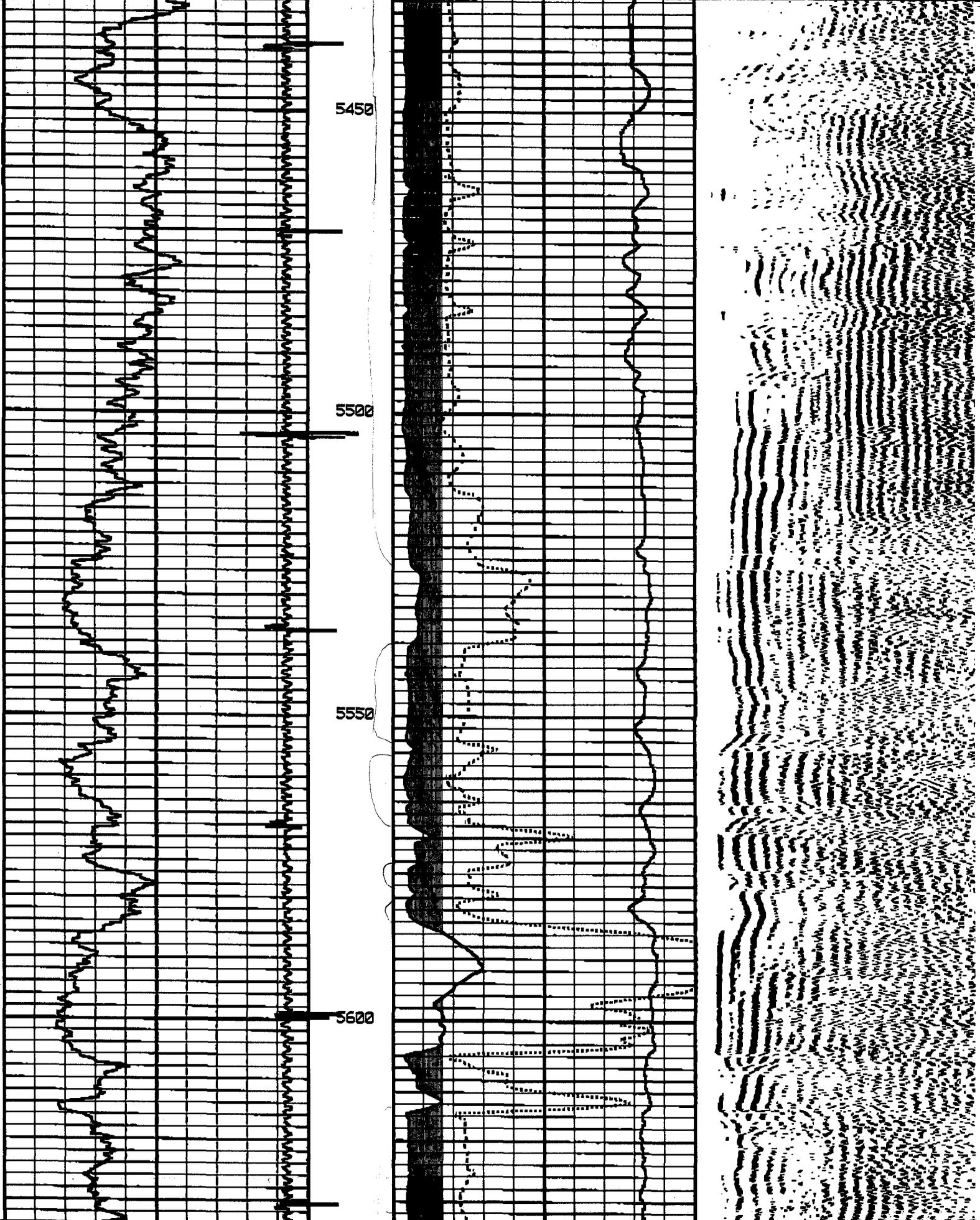


TRAVEL TIME



VARIABLE DENSITY





5650

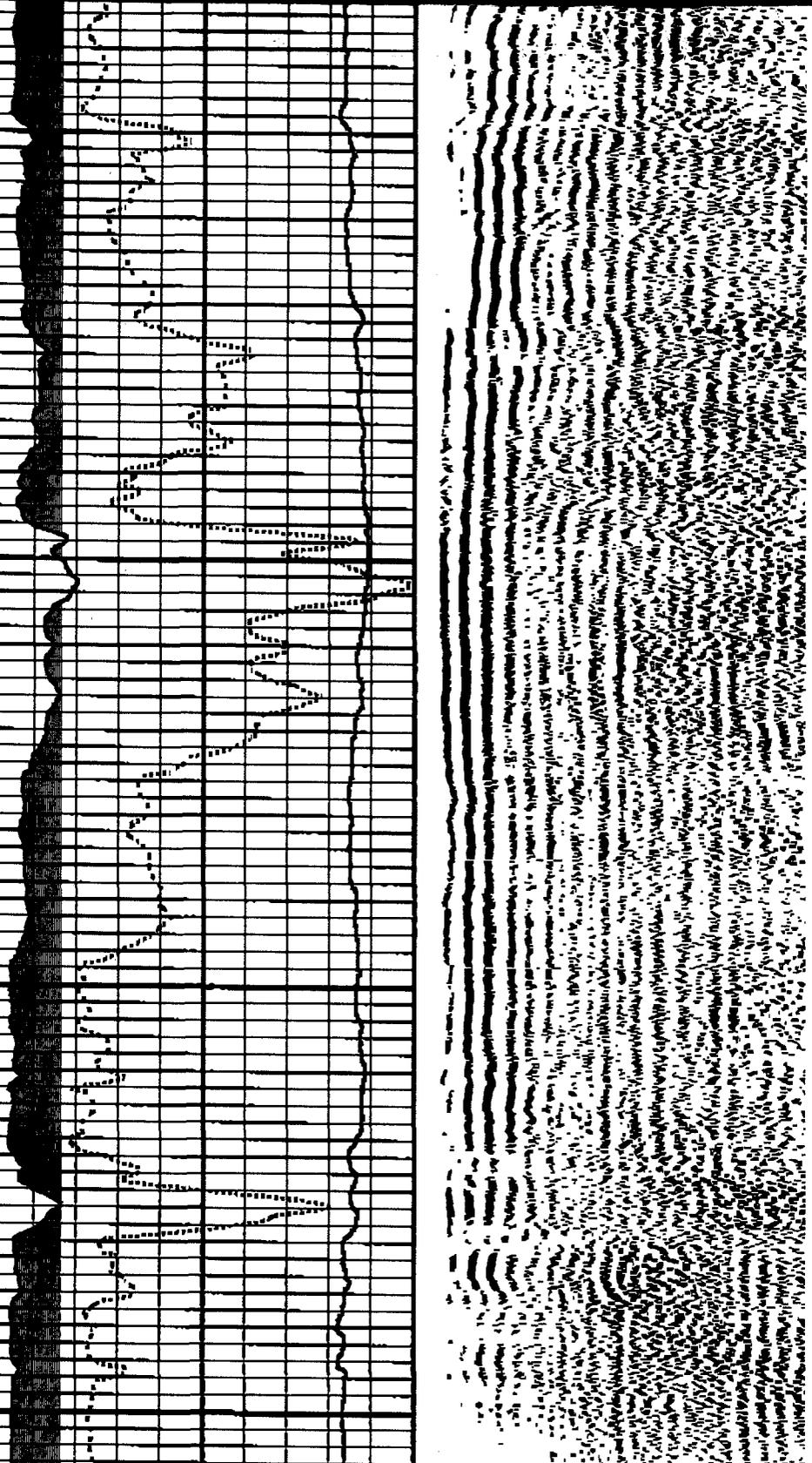
5700

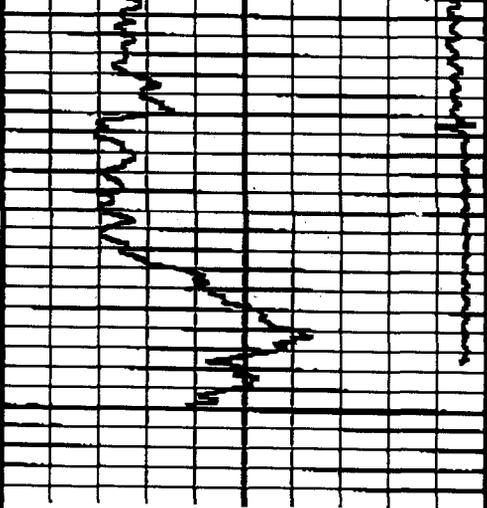
7/2 Lolsmay

5750

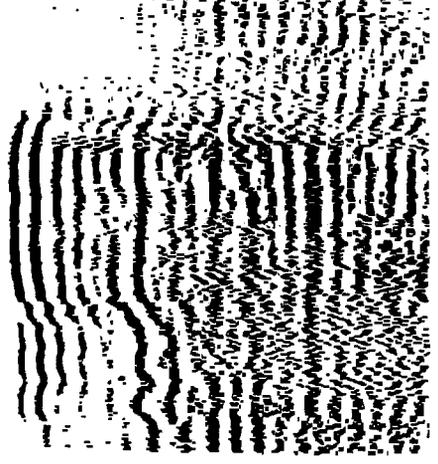
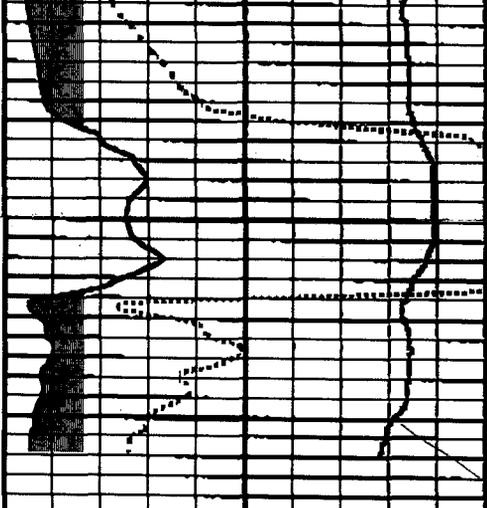
Perfs

5800





5850



GAMMA RAY
 0 CPS 50
 COLLAR LOCATOR
 1 MV -1

TRAVEL TIME
 1200 uSec 200
 AMPLITUDE 2 5
 0 MV 20
 PIPE AMPLITUDE
 0 MV 100

TT
 VARIABLE DENSITY
 200 usec 120

STOP DEPTH 5860FT DATE: 08-16-0 TIME: 10:14a FILE: COW PLAYBACK PROGRAM

< 6mv \approx >80% band

SI BEST COPY AVAILABLE **GER**

DUAL INDUCTION - LATEROLOG

COUNTY SAN JUAN
FIELD or LOCATION WILDCAT
WELL NORTHWEST BLUFF #1
COMPANY MT. FUEL SUPPLY CO

COMPANY MOUNTAIN FUEL SUPPLY COMPANY

WELL Cow Boy
~~NORTHWEST BLUFF #1~~

FIELD WILDCAT

COUNTY SAN JUAN STATE UTAH

LOCATION 12 Other Services:
BHC-GR
SNP

Sec. 14 Twp. 39S Rge. 22E

Permanent Datum: GL, Elev. 4777
Log Measured From KB, 12 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4789
D.F. 4788
G.L. 4777

Date	7-6-68		
Run No.	ONE		
Depth - Driller	6031		
Depth - Logger	6030		
Perm. Log Interval	6026		
Top Log Interval	537		
Casing - Driller	10 3/4	537	@ @ @
Casing - Logger	537		
Bit Size	7 3/4		
Type Fluid in Hole	GEL		
Dens.	9.6	47	
Fluid Loss	12.0	5.0 ml	ml ml ml
Source of Sample	MUD TANK		
R _m @ Meas. Temp.	.75 @ 80 °F	@ °F	@ °F @ °F
R _{mf} @ Meas. Temp.	.57 @ 85 °F	.39 @ 123 °F	@ °F @ °F
R _{mc} @ Meas. Temp.	.50 @ 123 °F	@ °F	@ °F @ °F
Source: R _{mf} R _{mc}	M C		
R _m @ BHT	.48 @ 120 °F	@ °F	@ °F @ °F
Time Since Circ.	3 HOURS		
Max. Rec. Temp.	123 °F °F °F		
Equip. Location	3860 FARM.		
Recorded By	RUSEN		
Witnessed By	MR. GRAS & MR. ADAMS		

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.	Type Log	Depth	Scale Up Hole	Scale Down Hole
Depth - Driller					
Type Fluid in Hole					
Dens.	Visc.				
ph	Fluid Loss				
Source of Sample					

R_m @ Meas. Temp.	@	°F	@	°F	Run No.	Tool Type	Tool Position	Other
R_{mf} @ Meas. Temp.	@	°F	@	°F				
R_{mc} @ Meas. Temp.	@	°F	@	°F				
Source: R_{mf} R_{mc}								
R_m @ BHT	@	°F	@	°F				
R_{mf} @ BHT	@	°F	@	°F				
R_{mc} @ BHT	@	°F	@	°F				

C.D.: USED S.O.: 1 1/2"

Equip. Used Cart. No. 44B

 Panel No. 90A

 Sonde No. X3B

 IAP No. 251D

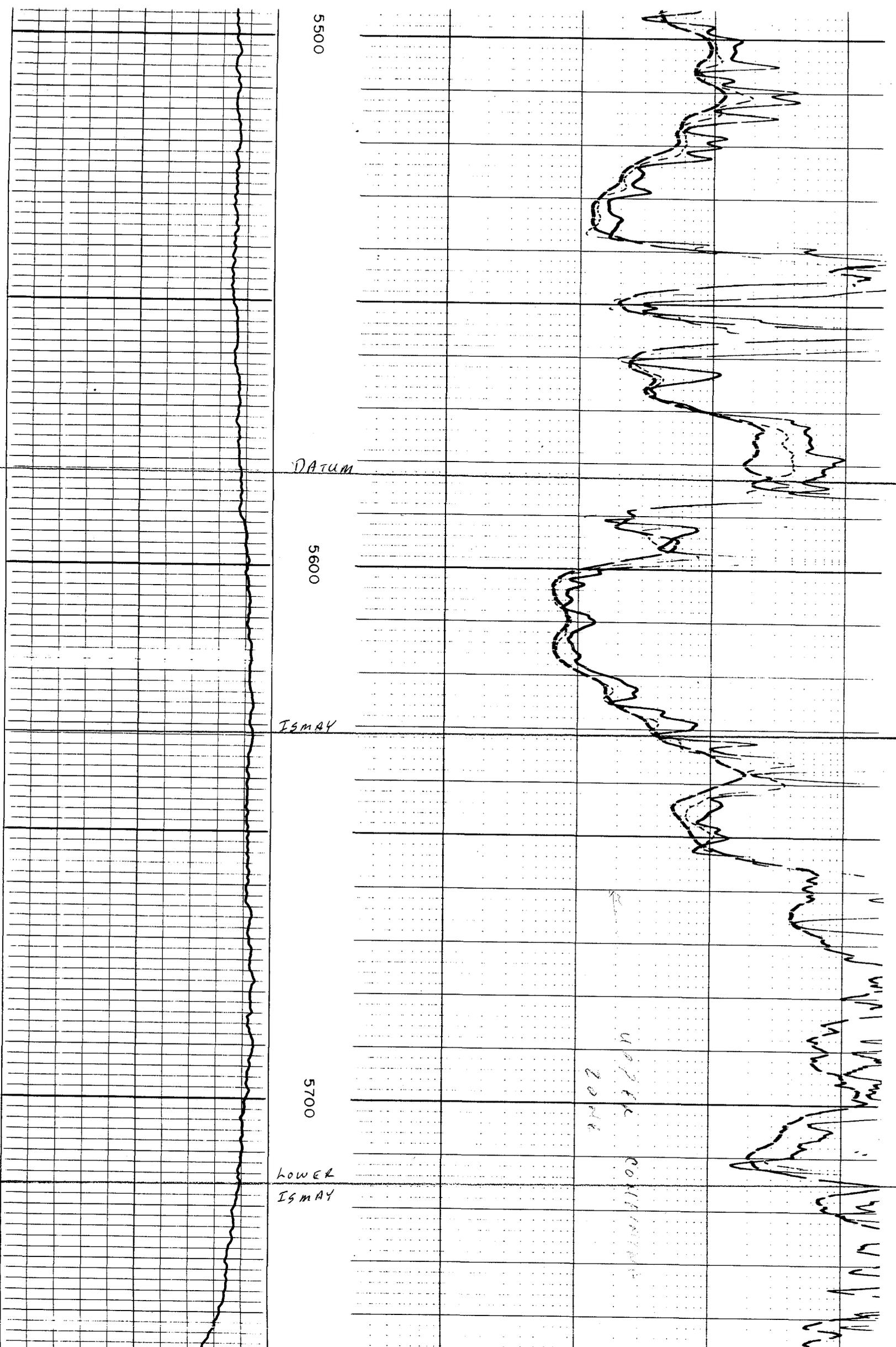
 SBR = 4

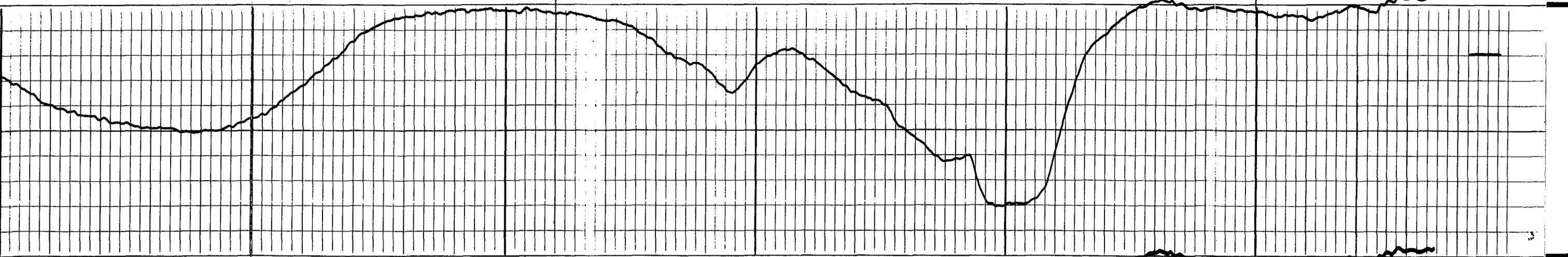
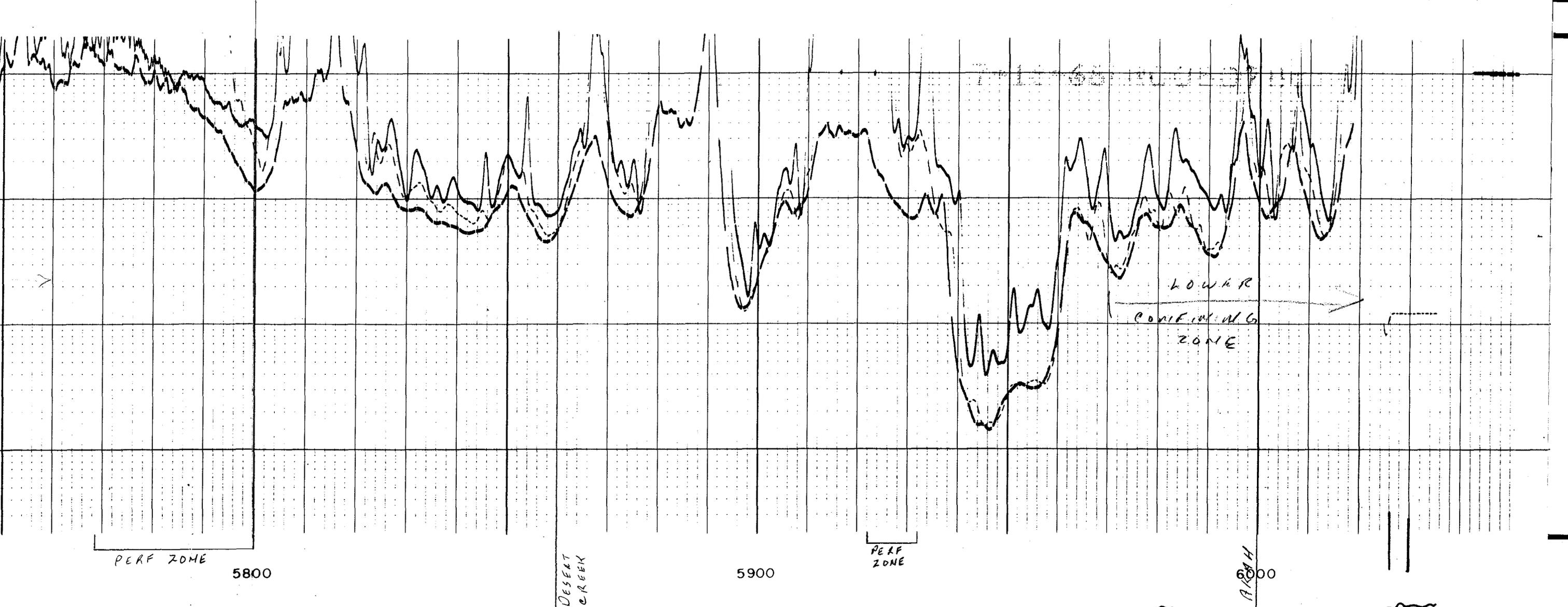
Check one, filling in blanks where applicable:

Surface determined sonde errors used for ILM and ILD.

ILM and ILD sonde errors corrected for _____ inch borehole signal at $R_m =$ _____

ILM and ILD zeros set in hole at depth of _____ feet.





		<p style="text-align: center;">LATEROLOG - 8</p> <p>0.2 1.0 10 100 1000 2000</p>
<p style="text-align: center;">GAMMA RAY API units</p>		<p style="text-align: center;">MEDIUM INDUCTION LOG</p> <p>0.2 1.0 10 100 1000 2000</p>
<p style="text-align: center;">- 10 +</p>		<p style="text-align: center;">DEEP INDUCTION LOG</p> <p>0.2 1.0 10 100 1000 000</p>
<p style="text-align: center;">SPONTANEOUS-POTENTIAL millivolts</p>	<p>DEPTHS</p>	<p style="text-align: center;">RESISTIVITY ohms - m²/m</p>

COMPANY MOUNTAIN FUEL SUPPLY COMPANY

WELL NORTHWEST BLUFF #1

FIELD WILDCAT

COUNTY SAN JUAN STATE UTAH

SCHL. FR 6026

SCHL. TD 6030

DRLR TD 6031

Elev:

KB 4789

DF 4788

GL 4777

SCHLUMBERGER**COMPENSATED
FORMATION DENSITY LOG**

Gamma-Gamma

COUNTY SAN JUAN
 FIELD OF COWBOY
 LOCATION COWBOY #4
 WELL COWBOY #4
 COMPANY MOUNTAIN FUEL

COMPANY MOUNTAIN FUEL SUPPLY COMPANYWELL COWBOY #4FIELD COWBOYCOUNTY SAN JUAN STATE UTAHLocation: 510' FSL, 1925' FWLSec. 14 Twp. 39S Rge. 22E

Other Services:

**DIL
SNP**

Permanent Datum: GL; Elev.: 4788
 Log Measured From KB, 12 Ft. Above Perm. Datum
 Drilling Measured From KB

Elev.: K.B. 4800
 D.F. 4799
 G.L. 4788

Date 2-20-69
 Run No. ONE
 Type Log FDC-GR
 Depth—Driller 5860
 Depth—Logger 5855
 Bottom logged interval 5854
 Top logged interval 4354
 Type fluid in hole FGM
 Salinity, PPM Cl. 2700
 Density 9.5
 Level FULL
 Max rec. temp., deg F. 108
 Operating rig time 2 HOURS
 Recorded by WELLS & OREN
 Witnessed by MR. GRAS & MR. LUDWIG

RUN No.	BORE-HOLE RECORD				CASING RECORD		
	Bit	From	To	Size	Wgt.	From	To
1	7 7/8	322	5860	10 3/4	-	SURF.	322

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE

EQUIPMENT DATA

Run No.	PG P- D	PDH-A	PGH-A	PGS-	Source No.	SFT-106	SGH	Logging Unit	Location
1	273	317	283	E-224	324	269	99	3860	FARM.
2									
3									

Run No.	Gamma Ray		FDC — Before Log → ACPS		FDC — After Log — ACPS	
	API Scale	Total CPS	P ₁	P ₂	P ₁	P ₂
1	0-200	440	352	780	352	780
2						
3						

CALIBRATION DATA**LOGGING DATA**

General

Gamma Ray

FDC — Before Log

FDC — After Log

Depths		Speed Ft./Min.	Tc	API Scale	Liquid Density	Grain Density	Hole Fluid	Porosity Scale
From	To							
5854	4354	30	2	0-200	1.00	2.71	LIQ.	0-30

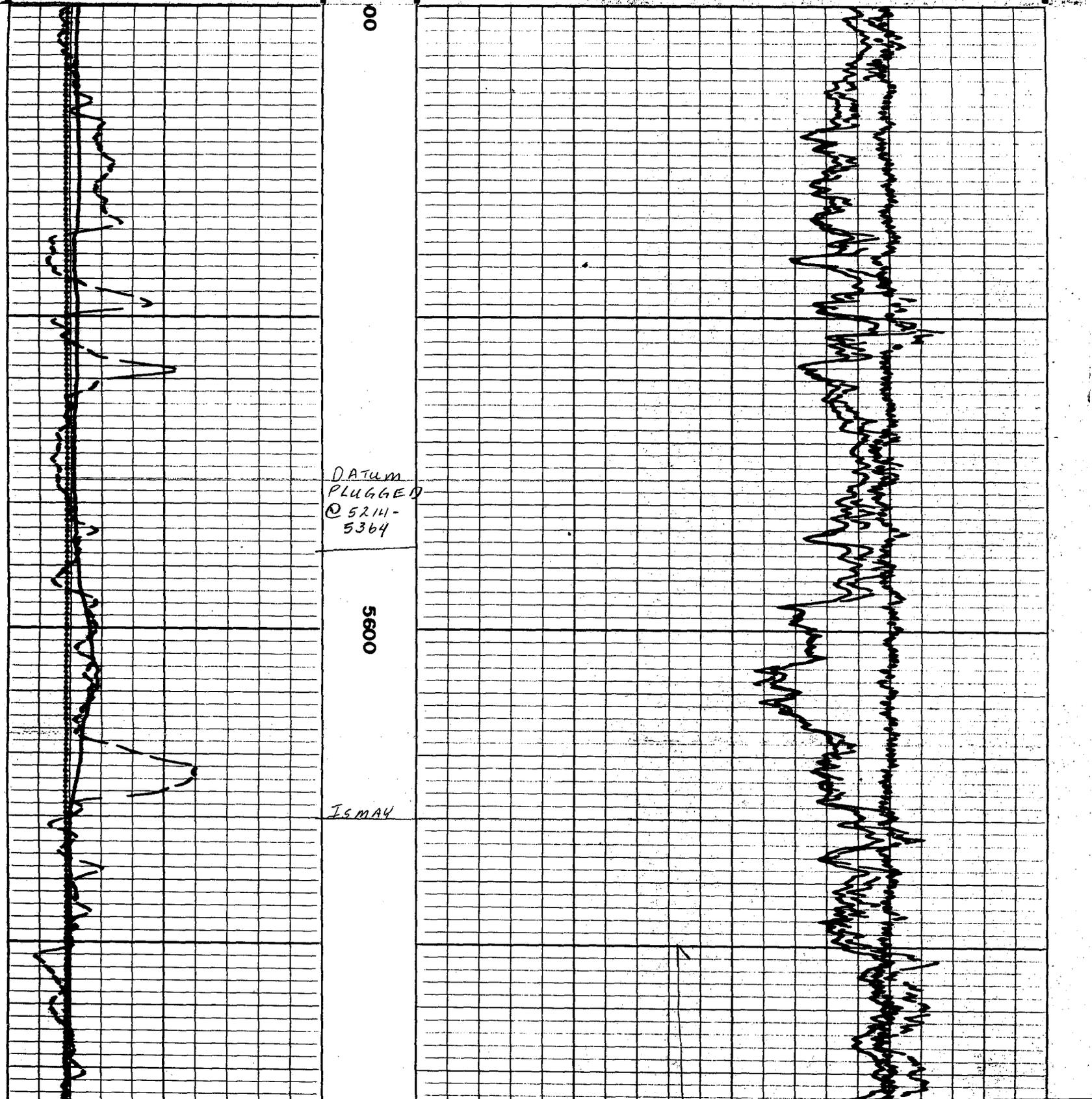
2-24-69 MOD 6222

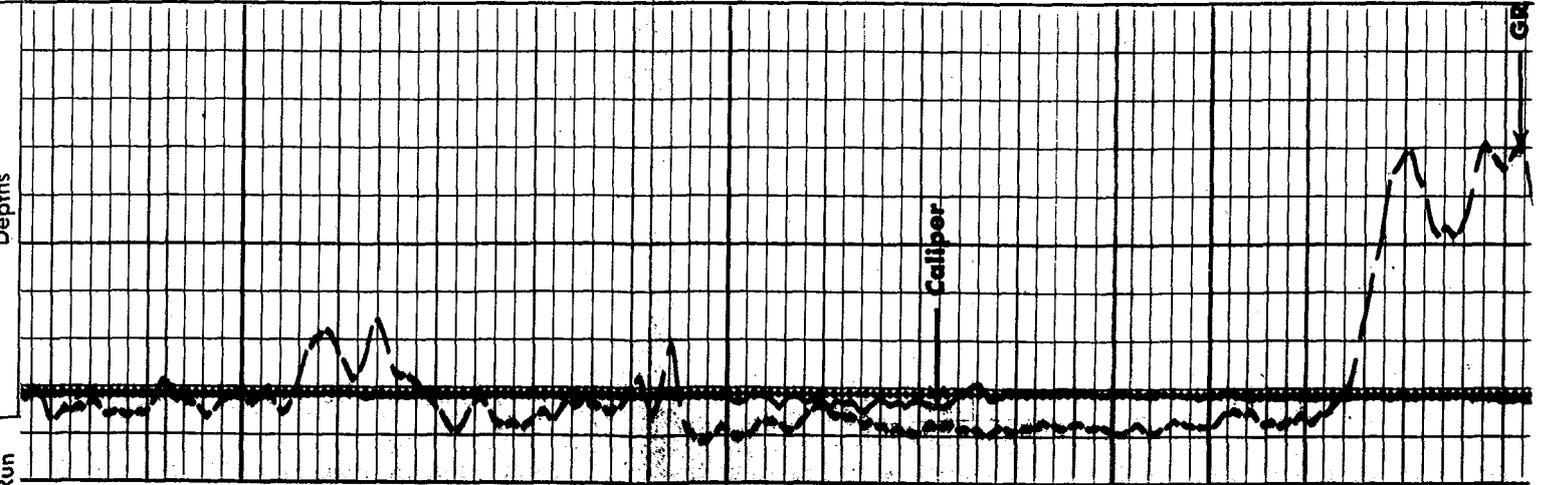
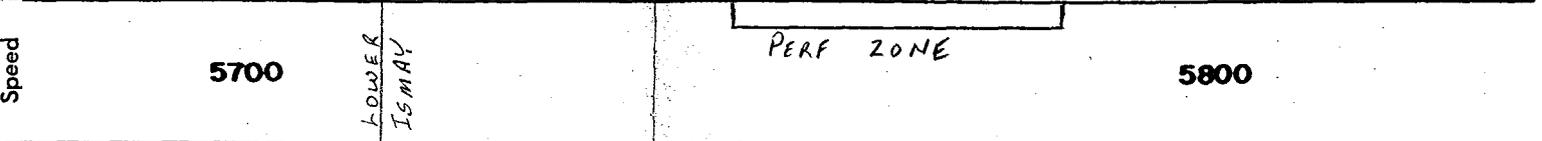
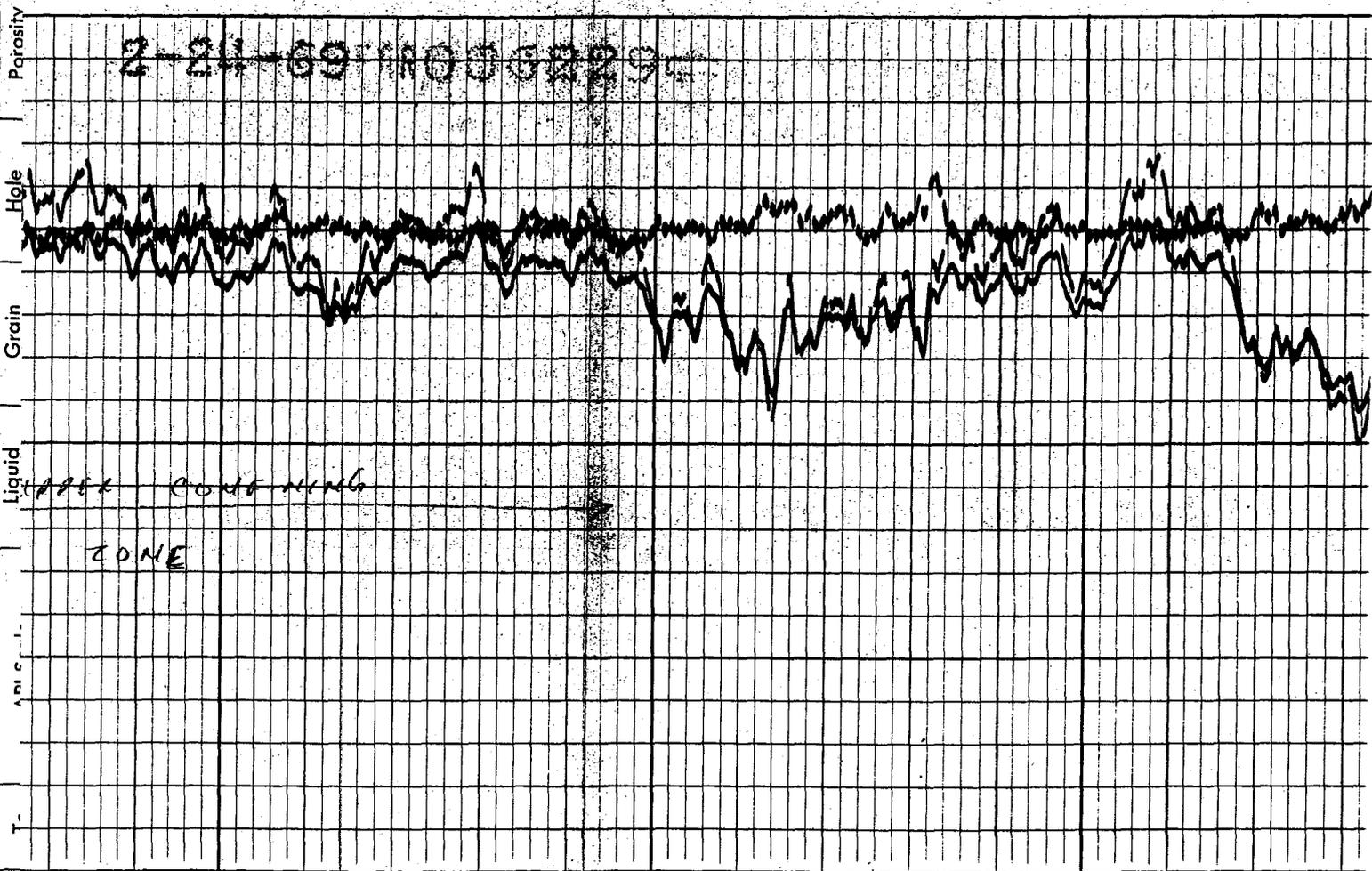
MUD DATA									
No.	Rm.	@	°F	% Solids by Vol.	% Oil by Vol.	% Water by Vol.	Viscosity, Sec/Qt @	°F	Solids, Av. Sp. Gr.
		@	°F				@	°F	
		@	°F				@	°F	
		@	°F				@	°F	

Remarks:

Interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretation and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by any party arising from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set forth in our current Price Schedule.

CALIPER HOLE DIAM. IN INCHES 6 8 10 12 14 16 7 9 11 13 15	DEPTHS 0 200 200 400	LIMESTONE POROSITY—% 30 20 10 0 -10 GRAIN DENSITY—2.71 GM/CC FLUID DENSITY—1.00 GM/CC -0.25 0 +0.25
		CORRECTION GRAMS/CC.
GAMMA RAY API UNITS		BULK DENSITY GRAMS/CC. 2.0 2.5 3.0 1.0 1.5 2.0





SCHLUMBERGER

DUAL INDUCTION - LATEROLOG

FIELD or LOCATION COWBOY WELL COWBOY #4 COMPANY MOUNTAIN FUEL	COMPANY <u>MOUNTAIN FUEL SUPPLY COMPANY</u>	
	WELL <u>COWBOY #4</u>	
	FIELD <u>COWBOY</u>	
	COUNTY <u>SAN JUAN</u>	STATE <u>UTAH</u>
	LOCATION <u>510' FSL, 1925' FWL</u>	
Sec. <u>14</u>	Twp. <u>39S</u>	Rge. <u>22E</u>
Permanent Datum: <u>GL</u> , Elev. <u>4788</u> Depth Measured From <u>KB</u> , <u>12</u> Ft. Above Perm. Datum Casing Measured From <u>KB</u>		Other Services: <u>FDC-GR</u> <u>SNP</u>
Elevation: <u>K.B. 4800</u> <u>D.F. 4799</u> <u>G.L. 4788</u>		

Date	2-19-69		
Run No.	ONE		
Depth - Driller	5860		
Depth - Logger	5854		
Normal Log Interval	5850		
Depth Log Interval	326		
Casing - Driller	10 3/4 @ 322	@	@
Casing - Logger	326		
Casing Size	7 7/8		
Type Fluid in Hole	FGM		
Dens.	9.5	65	
Fluid Loss	12	7.6 ml	ml
Source of Sample	FLOWLINE		
R _m @ Meas. Temp.	2.4 @ 62 °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	2.0 @ 62 °F	1.14 @ 108 °F	@ °F
R _{mc} @ Meas. Temp.	- @ - °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M	-	
R _m @ BHT	1.38 @ 108 °F	@ °F	@ °F
Time Since Circ.	2 HOURS		
Max. Rec. Temp.	108 °F	°F	°F
Equip. Location	3860 FARM.		
Recorded By	WELLS & OREN		
Witnessed By	MR. GRAS & MR. LUDWIG		

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE

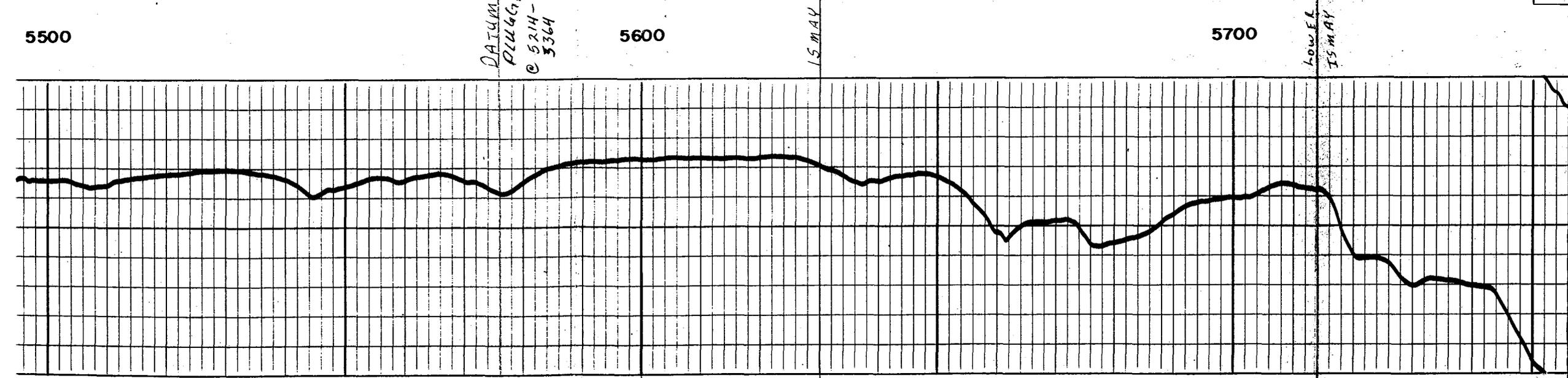
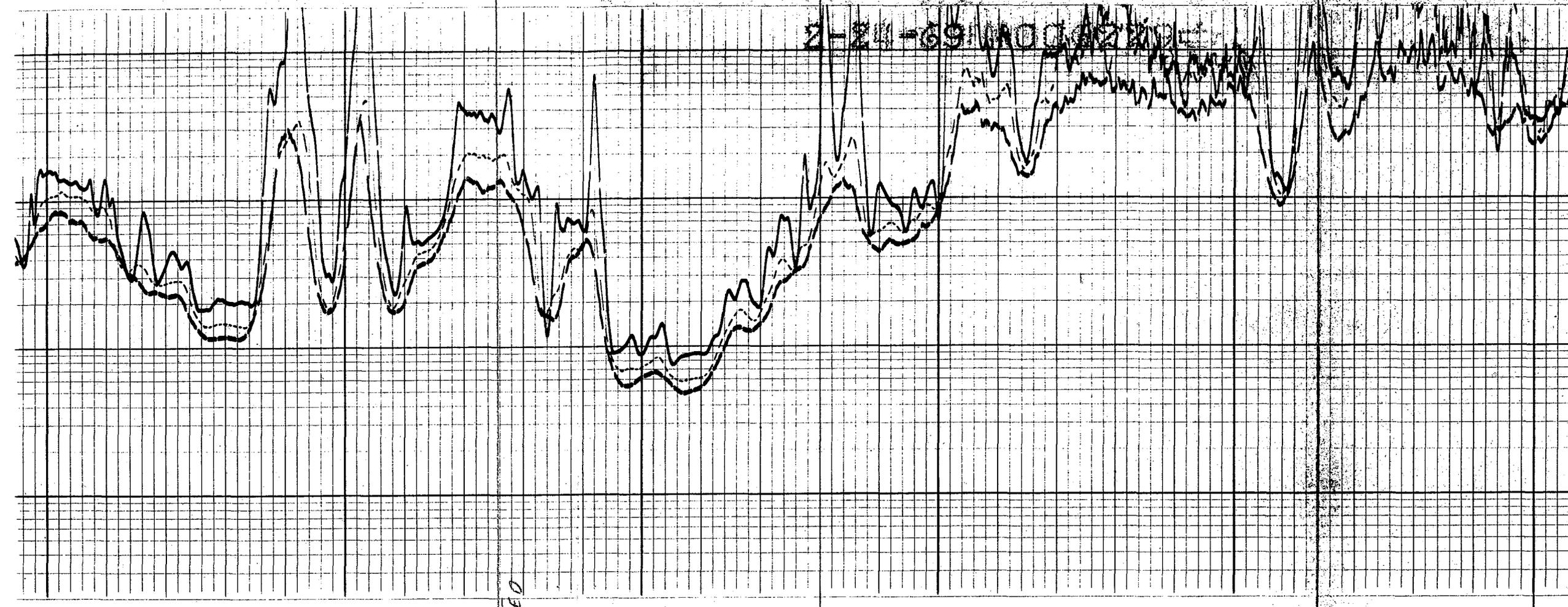
REMARKS	Scale Changes		Equipment Data	
	Date	Sample No.	Run No.	Tool Position
Depth - Driller				
Type Fluid in Hole				
Dens.				
Visc.				
ph				
Fluid Loss				
Source of Sample				
R _m @ Meas. Temp.				
R _{mf} @ Meas. Temp.				
R _{mc} @ Meas. Temp.				
Scale Changes	Scale Up Hole	Scale Down Hole	Tool Type	Other

2-24-69 100 622

R _{mc} @ Meas. Temp.	@	°F
Source: R _{mf} R _{mc}		
R _m @ BHT	@	°F
R _{mf} @ BHT	@	°F
R _{mc} @ BHT	@	°F

Run No.: ONE
 C.D.: USED
 S.O.: 1.5"
 Equip. PANEL No.: 90A
 Used: CART. No.: 44B
 SONDE No.: X3B
 IAP No.: 238B
 S.B.R.: 4

Check one, filling in blanks where applicable:
 Surface determined sonde errors used for ILM and ILD.
 ILM and ILD sonde errors corrected for inch borehole signal at R_m =
 ILM and ILD zeros set in hole at depth of feet.



Schlumberger

DUAL INDUCTION - LATEROLOG

WITH LINEAR CORRELATION LOG

COUNTY	SAN JUAN		
FIELD	COWBOY		
LOCATION	SEC. 23 39S 22E		
WELL	COWBOY NO. 7		
COMPANY	WILLARD PEASE OIL & GAS CO.		
COMPANY	WILLARD PEASE OIL & GAS CO.		
LOCATION	NW NW		
Other Services:	FDC/CNL-GR		
API SERIAL NO.	SEC.	TWP	RANGE
	23	39S	22E 4
Permanent Datum:	GL	Elev.:	4769
Log Measured From	KB	11	Ft. Above Perm. Datum
Drilling Measured From	KB		
Elev.:	K.B. 4770	D.F.	G.L. 4769

Date	6-7-77			
Run No.	ONE			
Depth—Driller	5800			
Depth—Logger	5812			
Btm. Log Interval	5804			
Top Log Interval	175			
Casing—Driller	8-5/8@219	@	@	@
Casing—Logger	175			
Bit Size	7-7/8			
Type Fluid in Hole	FGM			
Dens.	10.0	Visc.	65	
pH	---	Fluid Loss	11 ml	ml
Source of Sample	FLOW LINE			
Rm @ Meas. Temp.	1.24 @90 °F	@	°F	@ °F
Rmf @ Meas. Temp.	.82 @90 °F	@	°F	@ °F
Rmc @ Meas. Temp.	--- @--- °F	@	°F	@ °F
Source: Rmf	M			
Rmc	---			
Rm @ BHT	.95 @117 °F	@	°F	@ °F
Circulation Stopped	1500			
Logger on Bottom	1900			
Max. Rec. Temp.	117 °F		°F	°F
Equip.	7656	Location	FARM	
Recorded By	RUSEN			
Witnessed By	MR. QUIGLEY			

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE

Run No.	ONE	Scale Up Hole	Scale Down Hole
Service Order No.	04952	Depth	
Fluid Level	FULL	Type Log	
Salinity - PPM CL.	FGM		
Speed - F.P.M.	70		
EQUIPMENT DATA			
Panel No.	350 DC		
Cart No.	278 B		
Sonde No.	233 DB		
Mem. Panel No.	882		

G.R. Cart. No.	---
Tape Recorder - (TTR)	---
Depth Encoder - (DRE)	---
Pressure Wheel (CPW)	---
Type Centralizers	4 FIN
Stand Off - Inches	1-1/2"

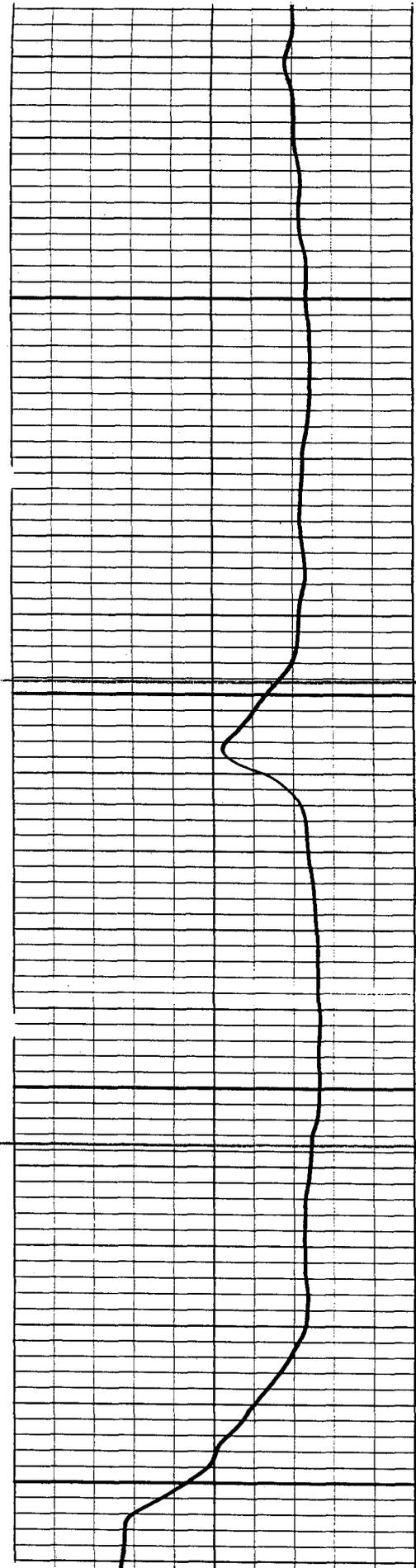
CALIBRATION DATA	
Sonde Error - ILM	6.5
Sonde Error - ILD	4.8
G.R. BKG. - CPS.	---
G.R. Source - CPS	---

LOGGING DATA	
S.E. Log - ILM	6.5
S.E. Log -ILD	4.8
S.E. - Set in Hole - Depth	---
S.E. Corr. - Hole Size	---
G.R. Scale per 100 Div.	---
G.R. - T.C.	---
G.R. Sens.	---

REMARKS

17-7713049820

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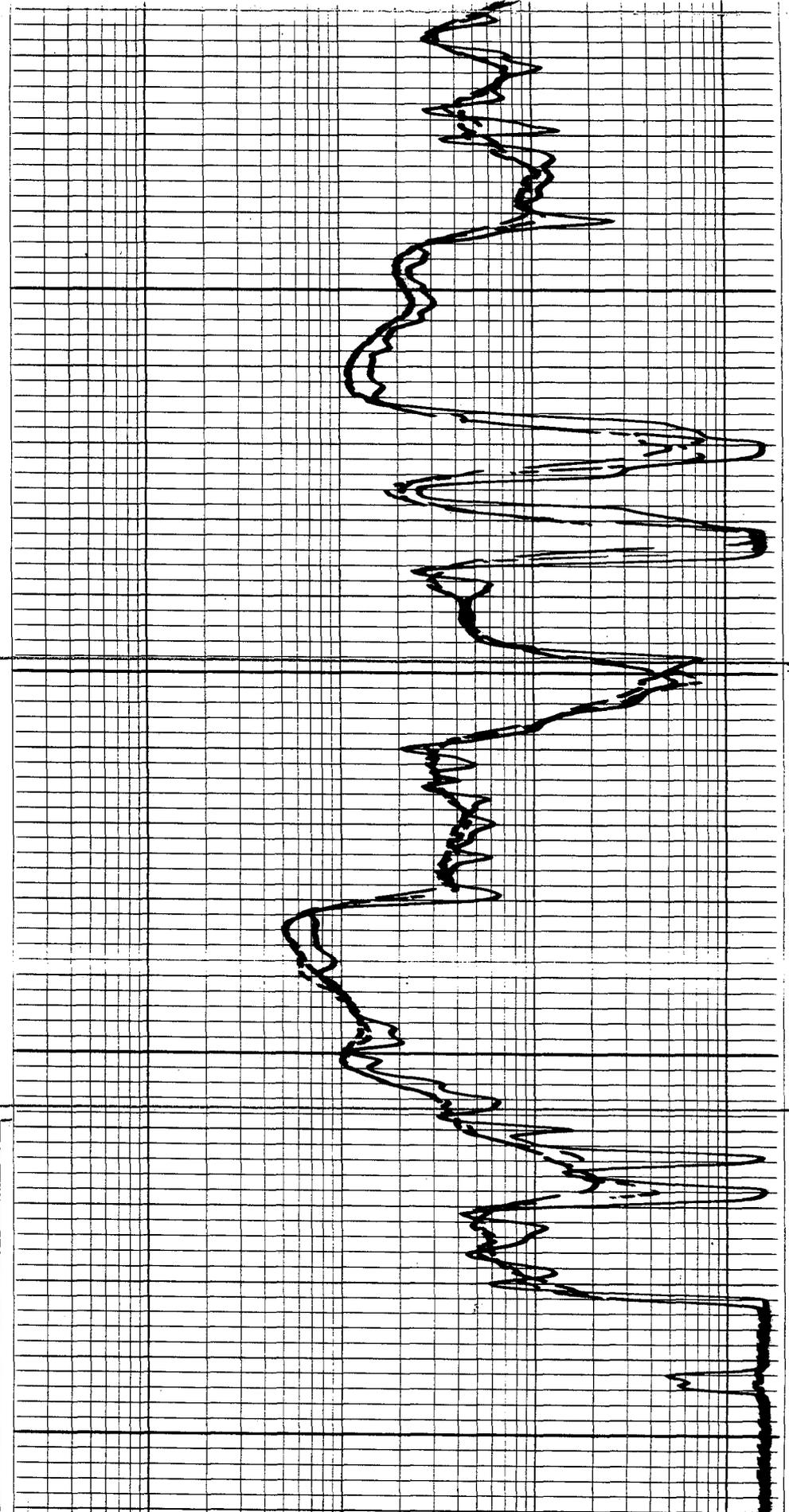


5500

DATUM

5600

ISMA4



Schlumberger

SIMULTANEOUS
COMPENSATED NEUTRON-
FORMATION DENSITY

COUNTY	SAN JUAN	COMPANY	WILLARD PEASE OIL & GAS CO.		
FIELD	COWBOY	WELL	COWBOY NO. 7		
LOCATION	SEC. 23 39S 22E	COUNTY	SAN JUAN	STATE	UTAH
WELL	COWBOY NO. 7	FIELD	COWBOY		
COMPANY	WILLARD PEASE OIL & GAS CO.				
LOCATION	NW NW			Other Services:	
API SERIAL NO.	SEC.	TWP.	RANGE	DIL	
	23	39S	22E		
Permanent Datum:	GL	; Elev.: 4769			Elev.: K.B. 4770
Log Measured From	KB	, 11 Ft. Above Perm. Datum			D.F. ---
Drilling Measured From	KB				G.I. 4769

Date	6-7-77				
Run No.	ONE				
Depth-Driller	5800				
Depth-Logger	5813				
Btm. Log Interval	5812				
Top Log Interval	4800				
Casing-Driller	8-5/8	@ 219	@	@	@
Casing-Logger	175				
Bit Size	7-7/8				
Type Fluid in Hole	FGM				
Dens.	Visc.	10.0	65		
pH	Fluid Loss	---	11 ml	ml	ml
Source of Sample	FLOWLINE				
Rm @ Meas. Temp.	1.2	@ 90 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.82	@ 90 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	---	@ --- °F	@ °F	@ °F	@ °F
Source: Rmf	Rmc	M	---		
Rm @ BHT	.95	@ 117 °F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	1500			
	Logger on Bottom	2100			
Max. Rec. Temp.	117	°F	°F	°F	°F
Equip.	Location	7656	FARM		
Recorded By	RUSEN				
Witnessed By Mr.	QUIGLEY				

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE

RUN NO.	ONE	Type Log	Depth
Service Order No.	04952		
Fluid Level	FULL		
Salinity, PPM CL.	FGM		
Speed - F.P.M.	30		
EQUIPMENT DATA			
Dens. Panel	1088		
Dens. Cart.	104 G		
Dens. Skid	92 F		

Sens. Sonde	229 EC
Sens. Source	5075 J
Sens. Calibrator	1037
Leut. Panel	98 A
Leut. Cart.	103 A
Leut. Source	158 A
Leut. Calibrator	100 A
FR Cart.	1095
Memorizer Panel	---
Teape Recorder (TTR)	---
Depth Encoder (DRE)	---
Pressure Wheel (CPW)	---
Centralizers:	Type
Center Spring,	No.
Standoffs,	S. O. - Inches
In-line, or None	---

REMARKS:

6-17-77 1104950

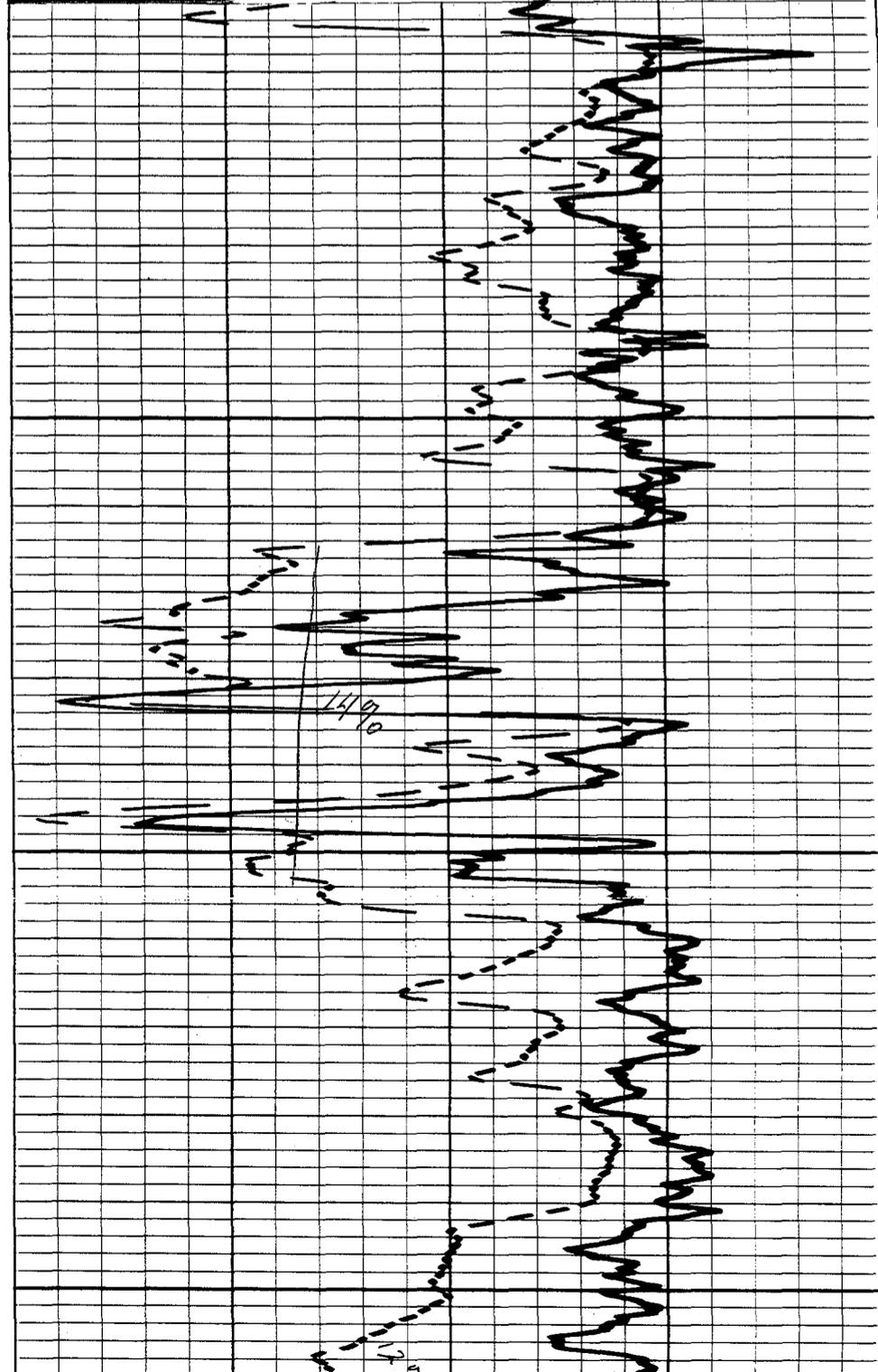
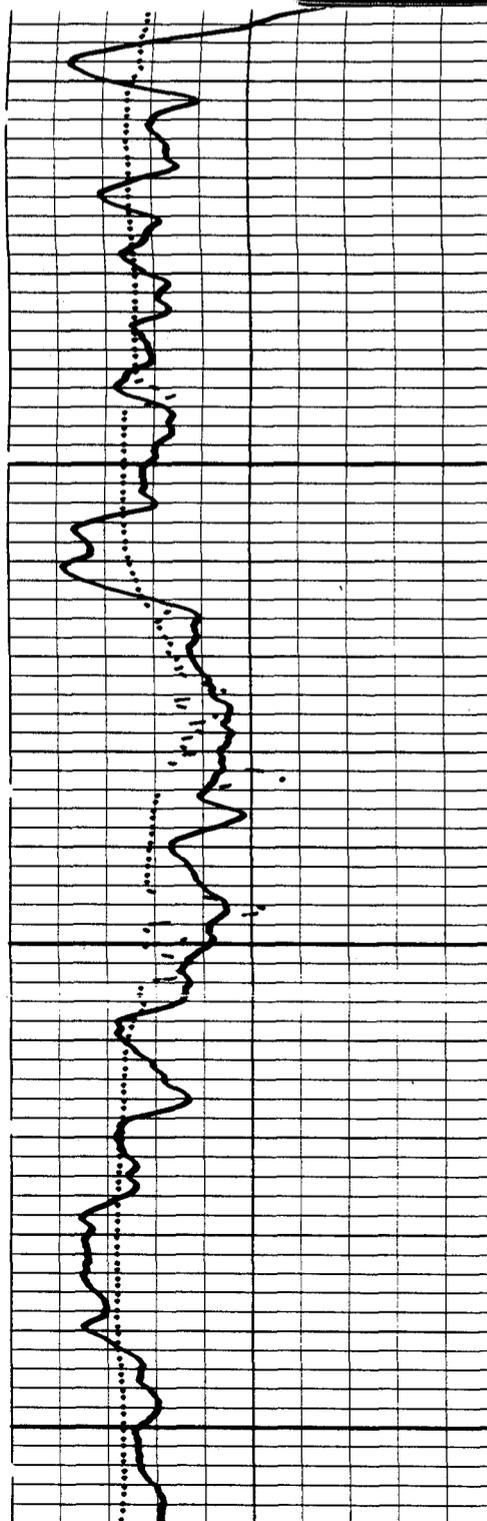
CALIBRATION DATA	
GR	BKG. CPS 100
	Source CPS 540
	Sens. - Cal CAL
	T. C. - Cal CAL
	Short Spacing - Before Log 121
	Long Spacing - Before Log 55
	Short Spacing - After Log 121
	Long Spacing - After Log 55
	P ¹ - Before Log 700
	P ² - Before Log 448
	P ¹ - After Log 700
	P ² - After Log 448

LOGGING DATA												
DEPTH		CNP			FDC				GR			
Top	Bottom	Porosity Scale	Matrix	Auto Corr. or Hole Size Setting	Porosity Scale	Grain Density	Liquid Density	Hole Fluid	Sens. Logged	T. C.	Zero. Div. Left	Scale Per 100 Div.
LR	FR	20/TR	LIMESTONE	AUTO	20/TR	2.71	1.05	LIQ	200	2	0	200

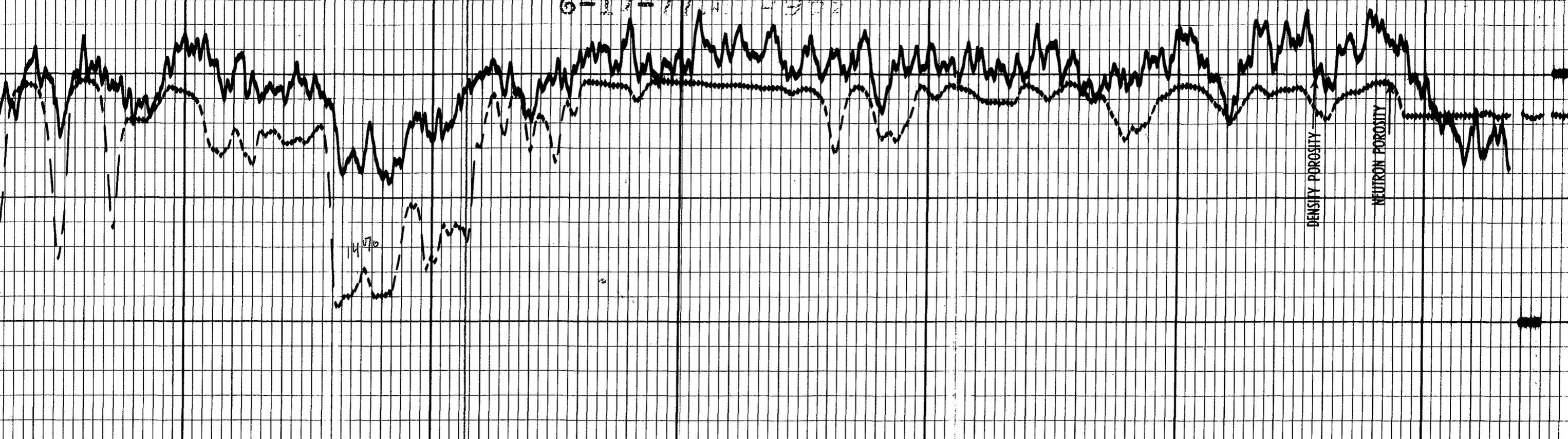
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CALIPER	DIAM. IN INCHES
6	16
GAMMA RAY	API UNITS
0	200
	400

POROSITY INDEX %	LIMESTONE	MATRIX		
COMPENSATED FORMATION DENSITY POROSITY				
30	20	10	0	-10
COMPENSATED NEUTRON POROSITY				
30	20			



6-17-77 1977



DATUM

5600

ISMAY

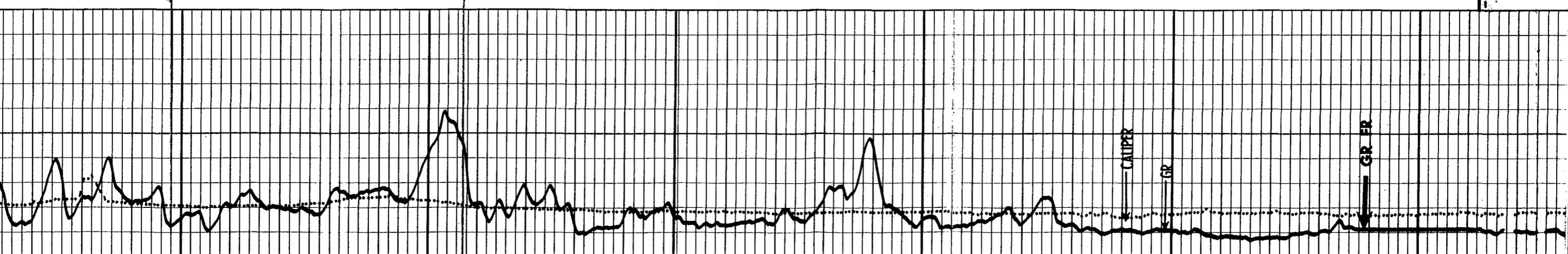
PERF ZONE 0%

5700

5800

FR

SCHL.
T.D.



Fees
Schlumberger

BOREHOLE COMPENSATED SONIC LOG - GAMMA RAY

COUNTY FIELD or LOCATION WELL COMPANY	COMPANY <u>WILLARD PEASE</u>
	WELL <u>COWBOY #6</u>
	FIELD <u>COWBOY</u>
	COUNTY <u>SAN JUAN</u> STATE <u>UTAH</u>
LOCATION <u>10</u>	Other Services: <u>DIL</u>
Sec. <u>14</u> Twp. <u>39S</u> Rge. <u>22E</u>	
Permanent Datum: <u>64</u> , Elev. <u>4734</u>	Elev.: K.B. <u>4743</u>
Log Measured From <u>KB</u> , <u>9</u> Ft. Above Perm. Datum	D.F. <u>-</u>
Drilling Measured From <u>KB</u>	G.L. <u>4734</u>

Date	<u>10-20-71</u>					
Run No.	<u>ONE</u>					
Depth—Driller	<u>5800</u>					
Depth—Logger	<u>5800</u>					
Btm. Log Interval	<u>5798</u>					
Top Log Interval	<u>3800</u>					
Casing—Driller	<u>8 5/8 @ 238</u>	@	@	@		
Casing—Logger	<u>238</u>					
Bit Size	<u>7 7/8</u>					
Type Fluid in Hole	<u>F-6-M.</u>					
Dens.	<u>9.3</u>	<u>36</u>				
pH	<u>7.5</u>	<u>5.0</u> ml	ml	ml	ml	ml
Source of Sample	<u>CIRL</u>					
R _m @ Meas. Temp.	<u>1.00 @ 65 °F</u>	(w) °F	(w) °F	(w) °F	(w) °F	F
R _{mf} @ Meas. Temp.	<u>1.90 @ 68 °F</u>	(w) °F	<u>1.07 @ 120 °F</u>	(w) °F	(w) °F	F
R _{mc} @ Meas. Temp.	<u>- @ °F</u>	(w) °F	(w) °F	(w) °F	(w) °F	F
Source: R _{mf} R _{mc}	<u>17</u>	<u>-</u>				
R _m @ BHT	<u>1.08 @ 120 °F</u>	(w) °F	(w) °F	(w) °F	(w) °F	F
Time Since Circ.	<u>4 HR.</u>					
Max. Rec. Temp.	<u>120</u> °F	°F	°F	°F	°F	F
Equip. Location	<u>5625</u>	<u>PART</u>				
Recorded By	<u>ROSEN</u>					
Witnessed By	<u>LAYNE (FEB)</u>					

The well name, location and borehole reference data were furnished by the customer.

REMARKS W.I. 34074

Scale Changes		Scale Down Hole
Type Log	Depth	Scale Up Hole
Changes in Mud Type or Additional Samples		
Date Sample No.		
Depth—Driller		
Type Fluid in Hole		

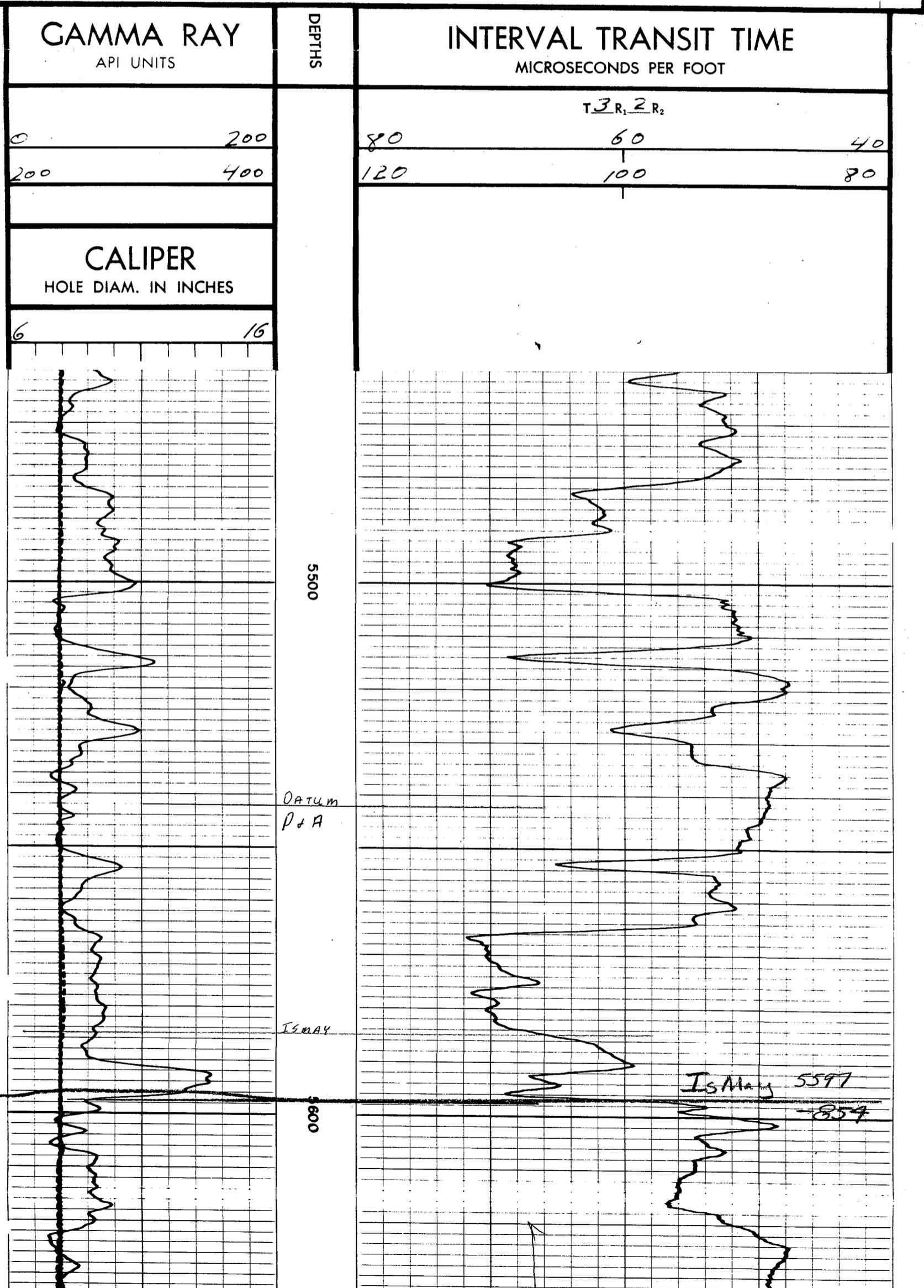
FOLD HERE

Fluid Loss	ml								
Source of Sample						Equipment Data			
R _m @ Meas. Temp.	@	°F	@	°F	Run No.	Tool Type	Pad Type	Tool Pos.	Other
R _{mf} @ Meas. Temp.	@	°F	@	°F					
R _{mc} @ Meas. Temp.	@	°F	@	°F					
Source: R _{mf} R _{mc}									
R _m @ BHT	@	°F	@	°F					
R _{mf} @ BHT	@	°F	@	°F					
R _{mc} @ BHT	@	°F	@	°F					

C.D.: *1500* S.O.: *H-102877 + VCD-0*
 Equip. Used: CART. No. *446 JB*
 PANEL No. *512*
 SONDE No. *316*

CALIBRATION:	BACKGND. CPS.	SOURCE CPS.	GALV. INCR. DIVISIONS	SENS. TAP (FOR CAL.)	SENS. TAP (RECORD)	TIME CONST.	RECORDING SPEED (FT./MIN.)
GAMMA RAY:	<i>100</i>	<i>500</i>	<i>100</i>	<i>200</i>	<i>200</i>	<i>1</i>	<i>60</i>

$$\text{Velocity (feet per second)} = \frac{1,000,000}{\text{Interval Transit Time (microseconds per foot)}}$$



5692
4743
—
999

UPPER
CONFINING
ZONE

Practically?

LOWER
ISMA4

Lower Isma4 - 949

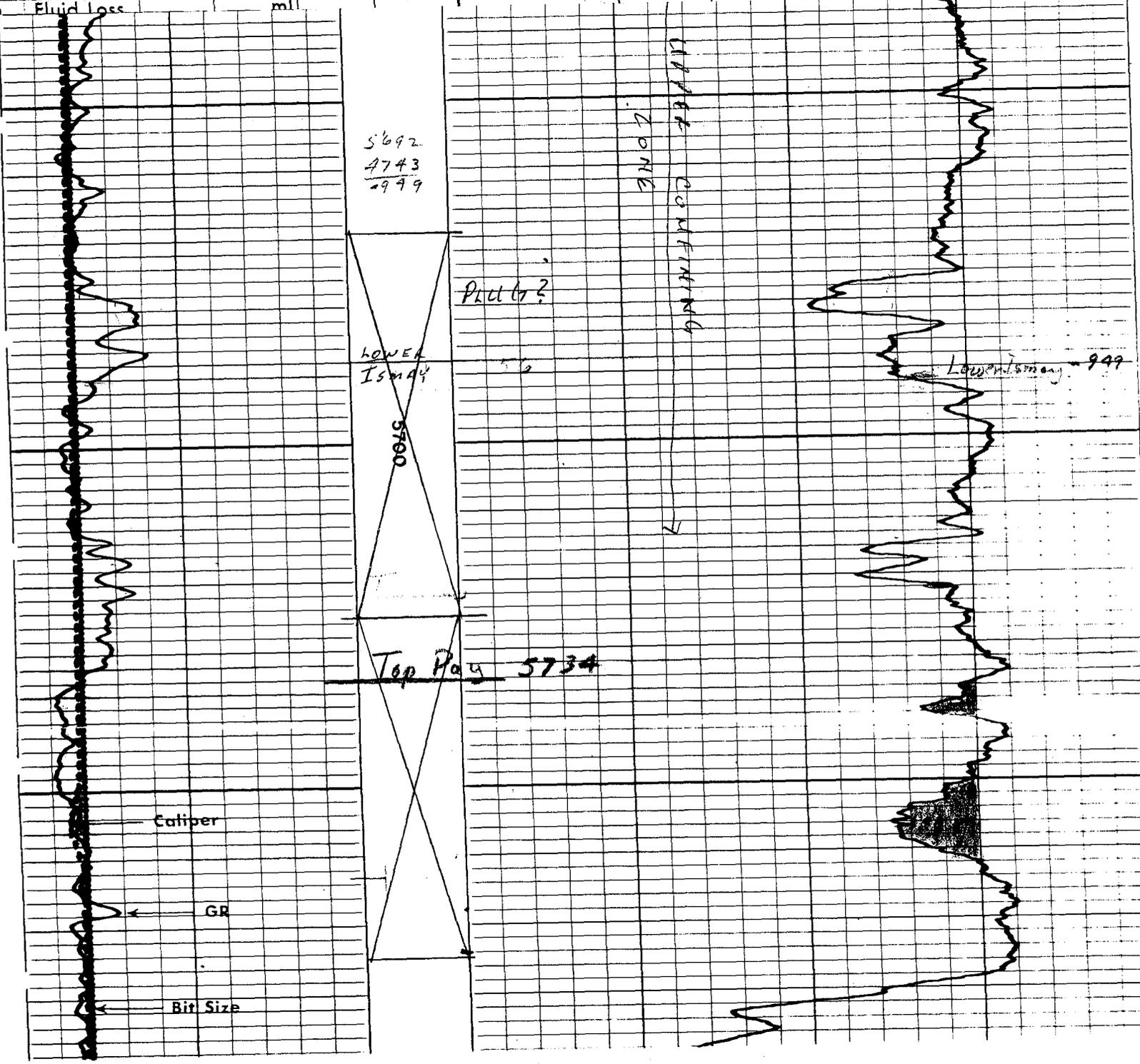
STOP

Top Part 5734

Caliper

GR

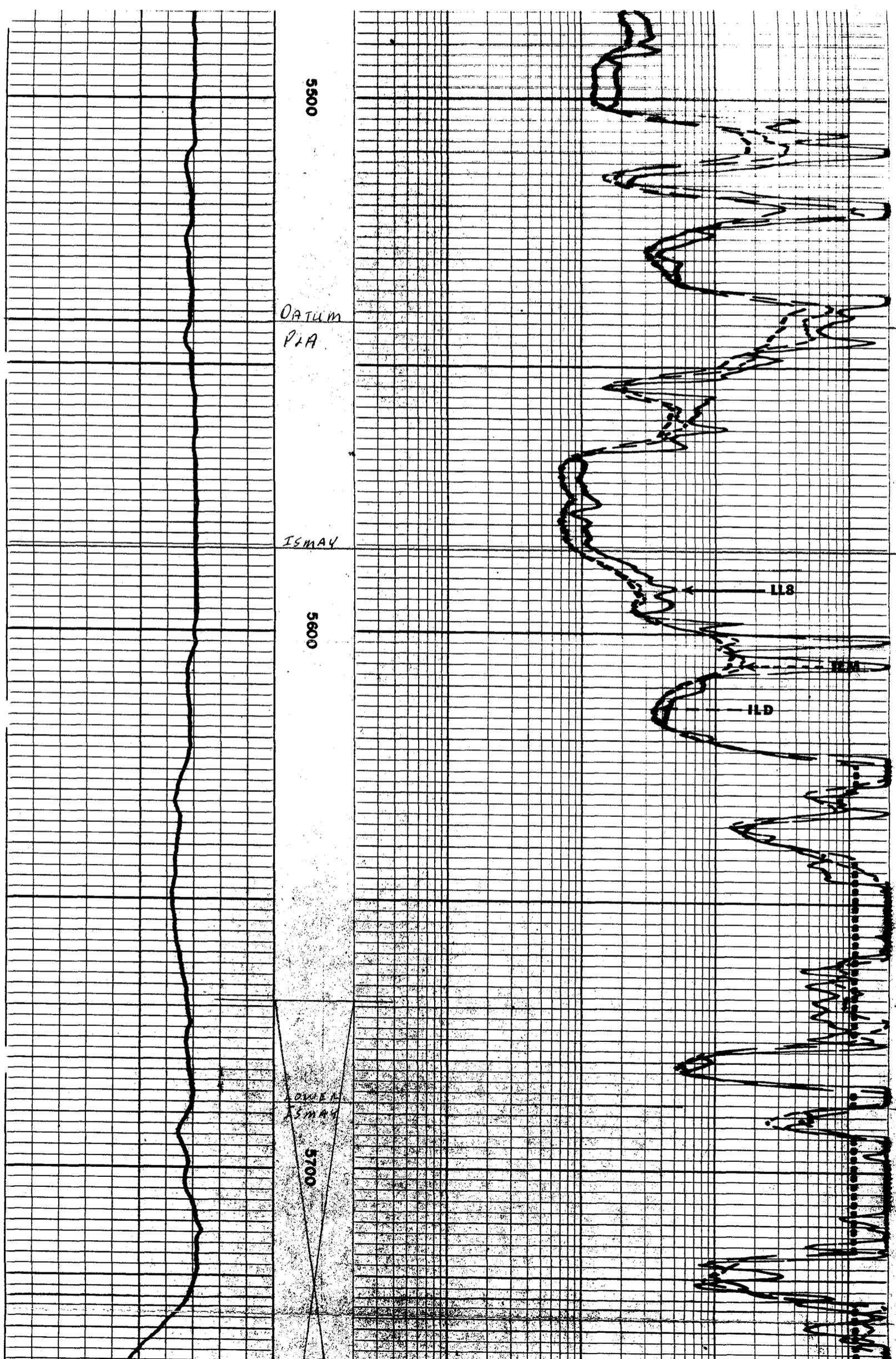
Bit Size



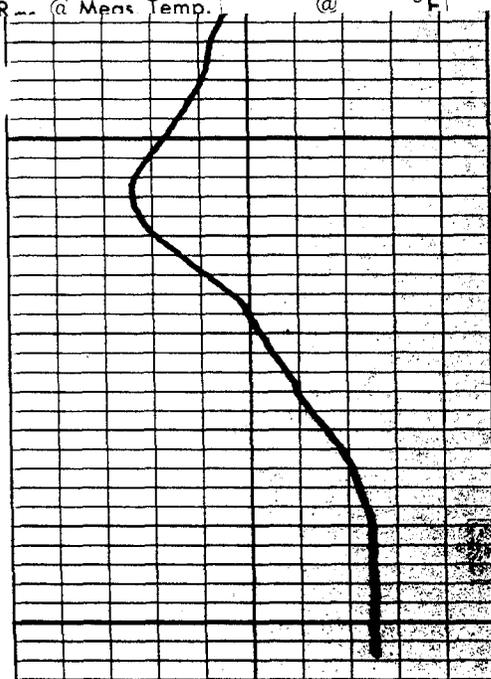
R _{mf} @ Meas. Temp.	@	°F	@	°F
R _{mc} @ Meas. Temp.	@	°F	@	°F
Source: R _{mf} R _{mc}				
R _m @ BHT	@	°F	@	°F
R _{mf} @ BHT	@	°F	@	°F
R _{mc} @ BHT	@	°F	@	°F

Run No.: 1
 C.D.: 4540
 S.O.: 1 1/2
 Equip. PANEL No.: 193 C
 Used: CART. No.: 182 B
 SONDE No.: 65 DB
 IAP No.: 237 B
 S.B.R.: 1

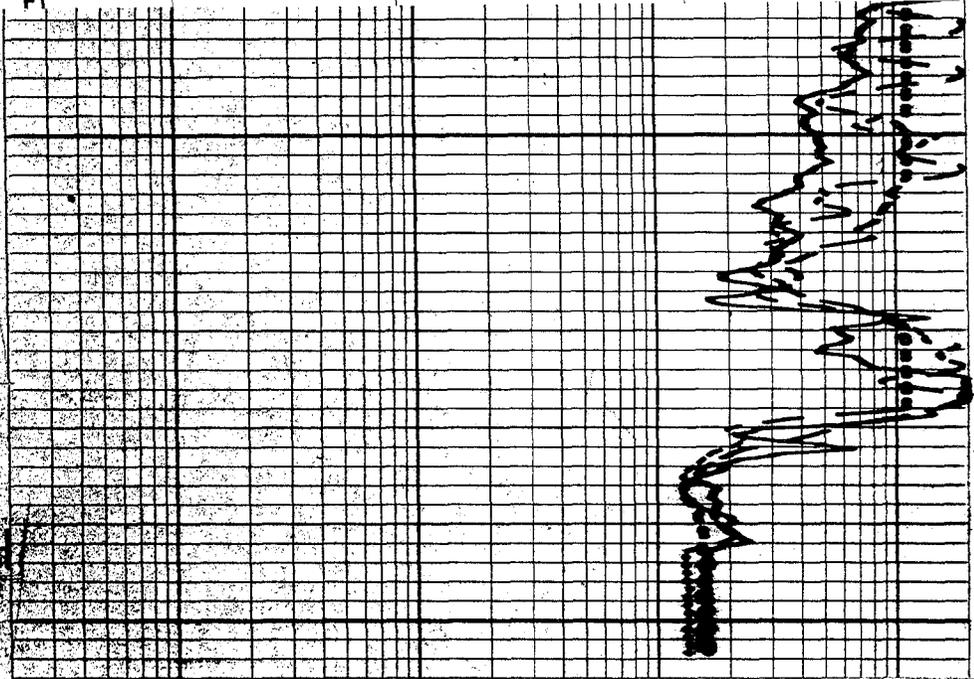
Check one, filling in blanks where applicable:
 Surface determined sonde errors used for ILM and ILD.
 ILM and ILD sonde errors corrected for _____ inch borehole signal at R_m = _____
 ILM and ILD zeros set in hole at depth of 5300 feet.



R_m @ Meas. Temp. @ °F @
 R_{mf} @ Meas. Temp. @ °F @
 R_{...} @ Meas. Temp. @ °F @



DEPTHS
 15000



SPONTANEOUS-POTENTIAL
 millivolts

DEPTHS

RESISTIVITY
 ohms. m²/m

- 20 +

LATEROLOG - 8



MEDIUM INDUCTION LOG



DEEP INDUCTION LOG



Schlumberger

DUAL INDUCTION - LATEROLOG

COUNTY FIELD or LOCATION WELL	MAIN COWBOY COWBOY # 5	COMPANY WILLARD PEASE	COMPANY <u>WILLARD PEASE</u>	
			WELL <u>COWBOY # 5</u>	
FIELD <u>COWBOY</u>		COUNTY <u>SAN JUAN</u> STATE <u>UTAH</u>		
LOCATION		SE NW <u>5</u>		Other Services: BHC-GR
Sec. <u>14</u>	Twp. <u>39 S</u>	Rge. <u>22 E</u>		

Permanent Datum: GL, Elev. 4782
 Log Measured From KB, 8 Ft. Above Perm. Datum Elev.: K.B. 4790
 Drilling Measured From KB D.F. ----
 G.L. 4782

Date	9-18-71				
Run No.	ONE				
Depth—Driller	5810				
Depth—Logger	5812				
Bottom Log Interval	5808				
Top Log Interval	303				
casing—Driller	8 5/8 @ 304	@	@	@	
casing—Logger	303				
Casing Size	7 7/8				
Type Fluid in Hole	FGM				
Dens.	Visc.	9.3	33		
Fluid Loss	-9.5		5.0ml	ml	ml
Source of Sample	MUD PIT				
R _m @ Meas. Temp.	2.41 @ 70 °F	@	@	@	@
R _{mf} @ Meas. Temp.	1.92 @ 78 °F	1.23 @ 121 °F	@	@	@
R _{mc} @ Meas. Temp.	-- @ -- °F	@	@	@	@
Source: R _{mf} R _{mc}	M	--			
R _m @ BHT	1.40 @ 121 °F	@	@	@	@
Time Since Circ.	7 HOURS				
Max. Rec. Temp.	121 °F	°F	°F	°F	°F
Equip. Location	5619 FARM				
Recorded By	STOWELL				
Witnessed By	MR. LANG				

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE R

W.I. # 43487

REMARKS

Changes in Mud Type or Additional Samples

Scale Changes

Date Sample No.

Depth—Driller

Type Fluid in Hole

Type Log

Depth

Scale Up Hole

Scale Down Hole

Dens.

Visc.

ph Fluid Loss

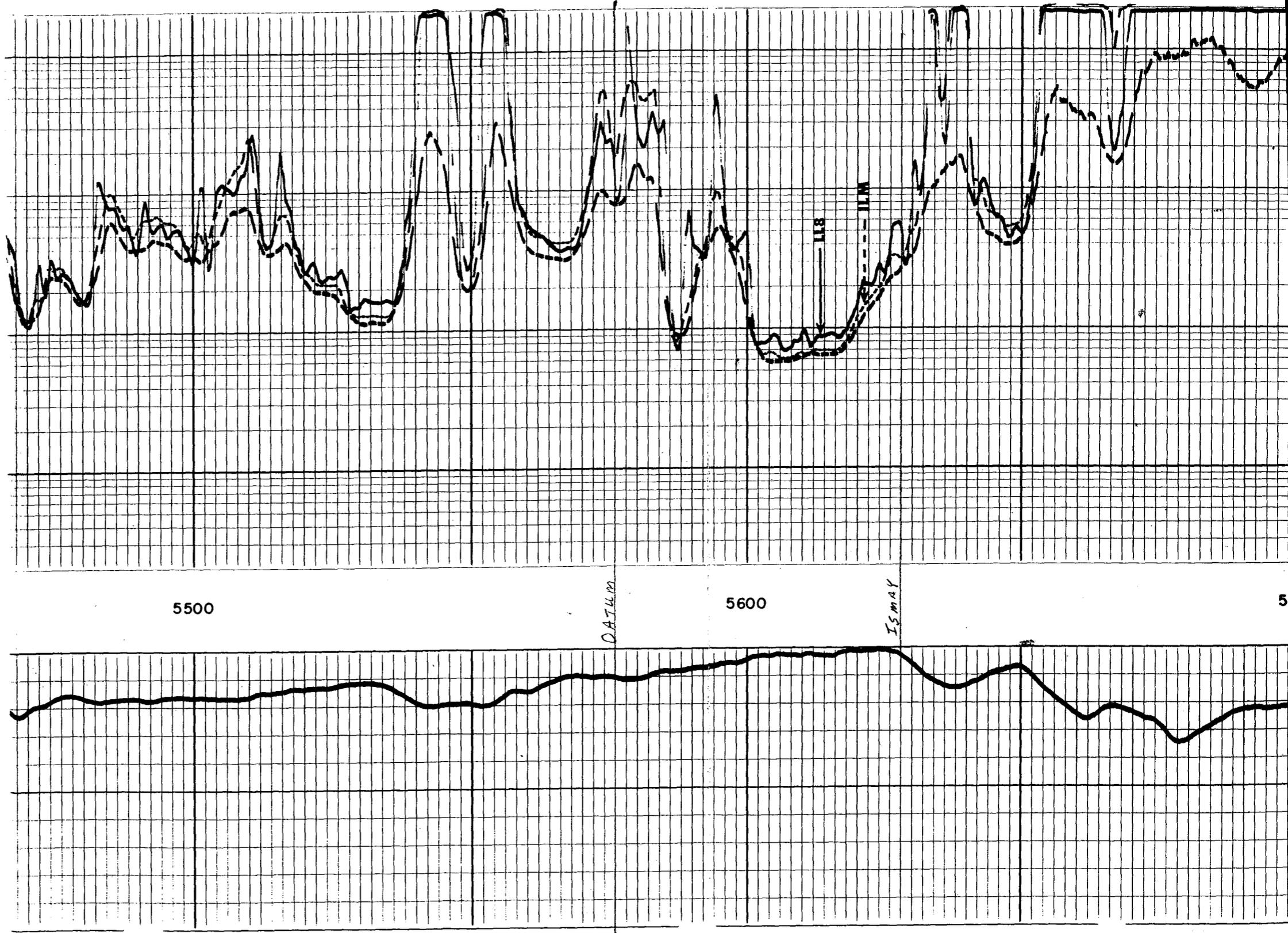
ml

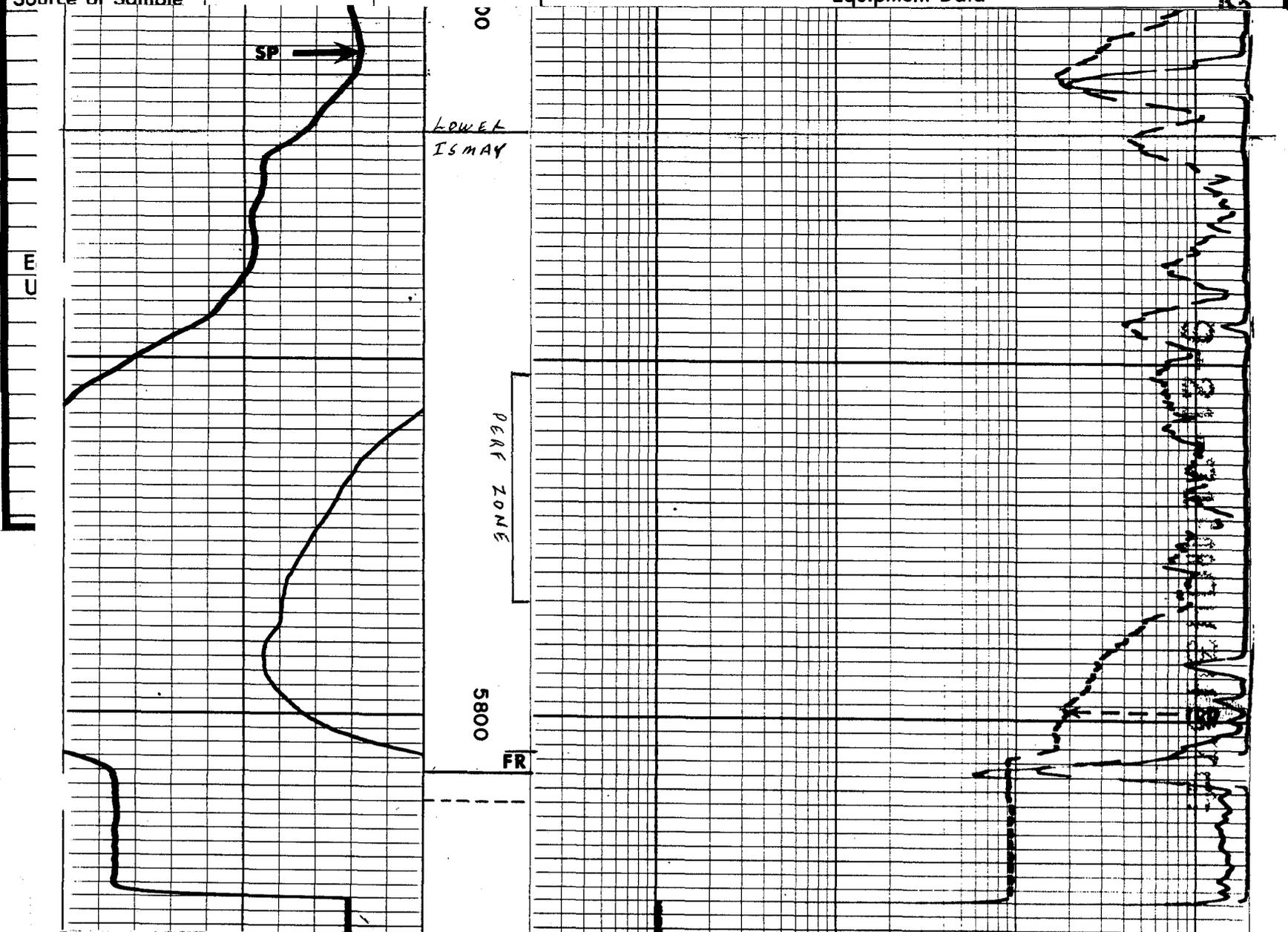
21-71-AROL3487

Source of Sample	Run No.	Tool Type	Tool Position	Other
R _m @ Meas. Temp.	@			
R _{mf} @ Meas. Temp.	@			
R _{mc} @ Meas. Temp.	@			
Source: R _{mf} R _{mc}				
R _m @ BHT	@			
R _{mf} @ BHT	@			
R _{mc} @ BHT	@			

Run No.: ONE
 C.D.: USED
 S.O.: 1 1/2"
 Equip. PANEL No.: DIP-CB-231
 Used: CART. No.: DIC-B -76
 SONDE No.: DIS-B -159
 IAP No.: MMP-B -257
 S.B.R.: 4

Check one, filling in blanks where applicable:
 Surface determined sonde errors used for ILM and ILD.
 ILM and ILD sonde errors corrected for borehole signal at R_m = _____ inch
 ILM and ILD zeros set in hole at depth of _____ feet.





LATEROLOG - 8
0.2 1.0 10 100 1000 2000

MEDIUM INDUCTION LOG
0.2 1.0 10 100 1000 2000

DEEP INDUCTION LOG
0.2 1.0 10 100 1000 2000

- |10| +

SPONTANEOUS-POTENTIAL
millivolts

DEPTHS

RESISTIVITY
ohms - m²/m

COMPANY WILLARD PEASE

WELL COWBOY # 5

FIELD COWBOY

COUNTY SAN JUAN STATE UTAH

SCHL. FR 5808

SCHL. TD 5812

DRLR TD 5810

Elev: KB 4790

DF ----

GL 4782

CALIBRATION DATA



Schlumberger

BOREHOLE COMPENSATED SONIC LOG - GAMMA RAY

COUNTY SAN JUAN, UTAH

FIELD or

LOCATION COWBOYWELL COWBOY # 5COMPANY WILLARD PEASECOMPANY WILLARD PEASEWELL COWBOY # 5FIELD COWBOYCOUNTY SAN JUAN STATE UTAH

LOCATION

SE NW5Sec. 14 Twp. 39 S Rge. 22 E

Other Services:

DIL

Permanent Datum: GL, Elev. 4782
 Log Measured From KB, 8 Ft. Above Perm. Datum
 Drilling Measured From KB

Elev.: K.B. 4790D.F. ----G.I. 4782

Date	<u>9-19-71</u>				
Run No.	<u>ONE</u>				
Depth—Driller	<u>5810</u>				
Depth—Logger	<u>5812</u>				
Form. Log Interval	<u>5803</u>				
Top Log Interval	<u>3800</u>				
casing—Driller	<u>8 5/8 @ 304</u>	<u>@</u>	<u>@</u>	<u>@</u>	<u>@</u>
casing—Logger	<u>--</u>				
Bit Size	<u>7 7/8</u>				
Type Fluid in Hole	<u>FGM</u>				
Dens.	<u>9.3</u>	<u>33</u>			
Visc.					
pH	<u>9.5</u>	<u>5.0 ml</u>	<u>ml</u>	<u>ml</u>	<u>ml</u>
Fluid Loss					
Source of Sample	<u>PIT</u>				
R _m @ Meas. Temp.	<u>2.41 @ 70 °F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>
R _{mf} @ Meas. Temp.	<u>1.92 @ 78 °F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>
R _{mc} @ Meas. Temp.	<u>-- @ -- °F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>
Source: R _{mf} R _{mc}	<u>M</u>	<u>--</u>			
R _m @ BHT	<u>1.40 @ 12 °F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>
Time Since Circ.	<u>14 HOURS</u>				
Max. Rec. Temp.	<u>121</u>	<u>°F</u>	<u>°F</u>	<u>°F</u>	<u>°F</u>
Equip. Location	<u>5619 FARM</u>				
Recorded By	<u>STOWELL</u>				
Witnessed By	<u>MR. LANG</u>				

FOLD HERE R The well name, location and borehole reference data were furnished by the customer.

REMARKS W. I. # 43487

Changes in Mud Type or Additional Samples

Scale Changes

Date Sample No.

Depth—Driller

Type Fluid in Hole

Type Log

Depth

Scale Up Hole

Scale Down Hole

Dens.

Visc.

ph

Fluid Loss

ml

Source of Sample

R _m @ Meas. Temp.	@	°F	@	°F	Run No.	Tool Type	Pad Type	Tool Pos.	Other
R _{mf} @ Meas. Temp.	@	°F	@	°F					
R _{mc} @ Meas. Temp.	@	°F	@	°F					
Source: R _{mf} R _{mc}									
R _m @ BHT	@	°F	@	°F					
R _{mf} @ BHT	@	°F	@	°F					
R _{mc} @ BHT	@	°F	@	°F					

C.D.: USED S.O.: VDC
 Equip. Used: CART. No. SLH-A-365
 PANEL No. SLP-JD-612
 SONDE No. SLS-D-510

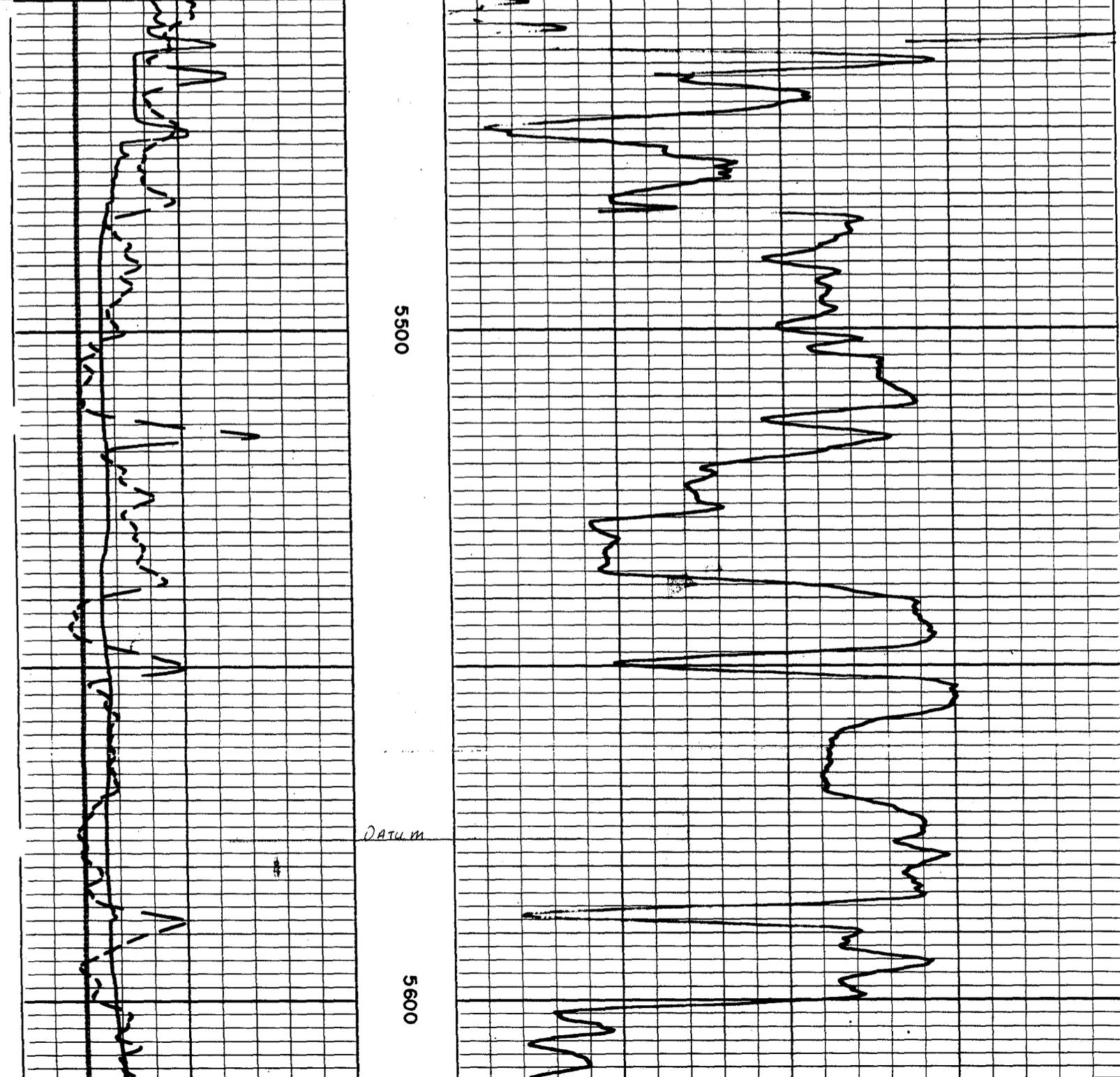
CALIBRATION:	BACKGND.	SOURCE	GALV. INCR.	SENS. TAP	SENS. TAP	TIME	RECORDING
	CPS.	CPS.	DIVISIONS	(FOR CAL.)	(RECORD)	CONST.	SPEED (FT./MIN.)
GAMMA RAY:	80	520	10.0	0-200	0-200	1	60

$$\text{Velocity (feet per second)} = \frac{1,000,000}{\text{Interval Transit Time (microseconds per foot)}}$$

GAMMA RAY API UNITS		DEPTHS	INTERVAL TRANSIT TIME MICROSECONDS PER FOOT	
0	200		80	60
200	400	120	100	80

T_{3R1}, 2¹R₂

CALIPER HOLE DIAM. IN INCHES	
6	8
10	12
14	16
7	9
11	13
15	



9-2-11 (REVISED)

40 μ Sec

60 μ Sec

80 μ Sec

UPPER CONFINING ZONE

5% DR.

PERF ZONE

ISMAY

5700

LOWER ISMAY

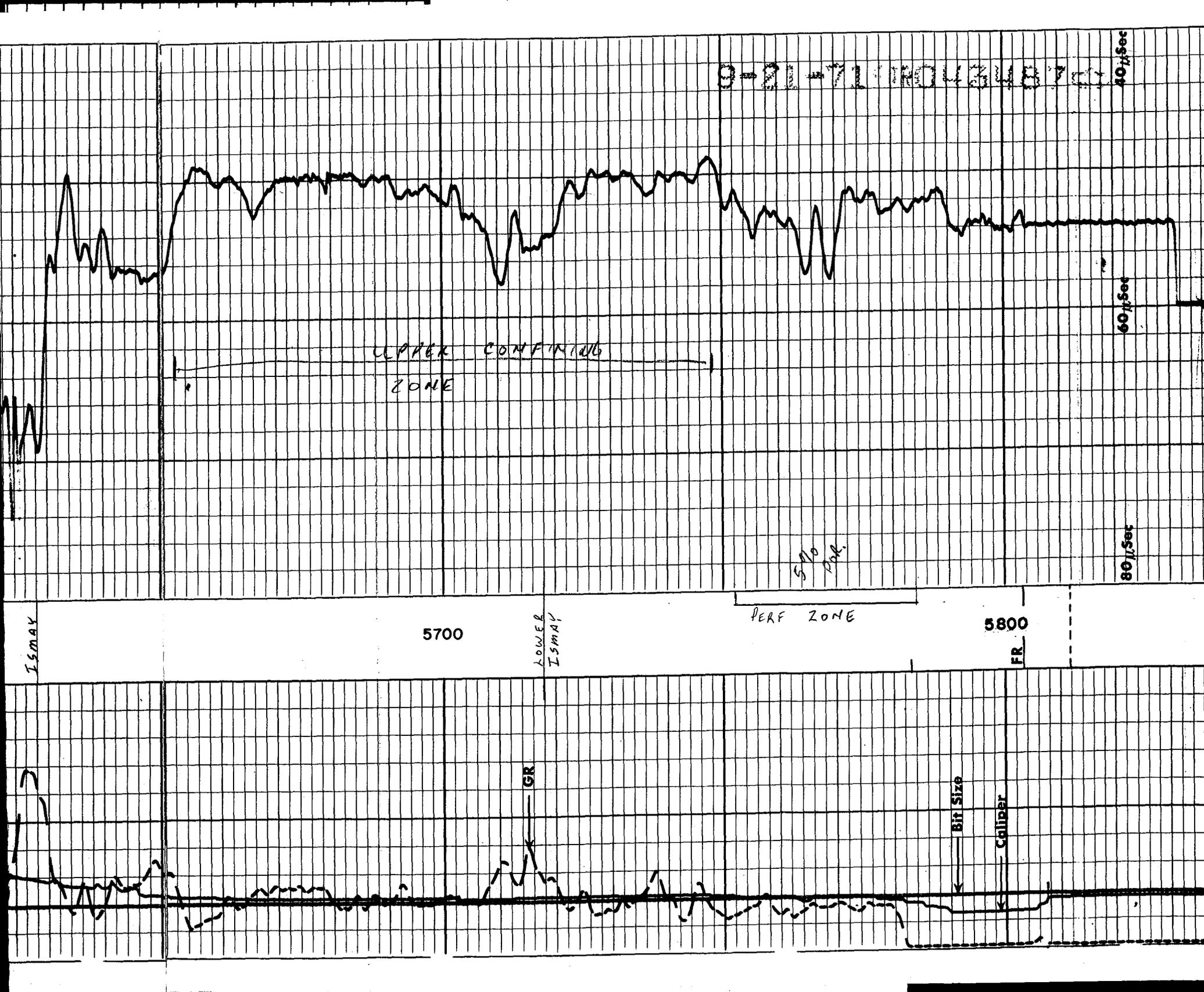
5800

FR

GR

Bit Size

Caliper



SCHLUMBERGER**COMPENSATED
FORMATION DENSITY LOG**

Gamma-Gamma

COUNTY _____ FIELD or LOCATION COWBOY WELL COWBOY #3
COMPANY MOUNTAIN FUEL

COMPANY MOUNTAIN FUEL SUPPLY COMPANY

WELL COWBOY #3

FIELD COWBOY

COUNTY SAN JUAN STATE UTAH

Location: 1720' FNL 460' FEL

Other Services: DIL
SNP

Sec. 15 Twp. 39S Rge. 22E

Gks _____

Permanent Datum: GL; Elev.: 4830

Log Measured From KB, _____ Ft. Above Perm. Datum

Drilling Measured From KB

Elev.: K.B. 4841
D.F. _____
G.L. 4830

Date	9-25-68
Run No.	ONE
Type Log	FDC
Depth—Driller	6063
Depth—Logger	6069
Bottom logged interval	6068
Top logged interval	4400
Type fluid in hole	GM
Salinity, PPM Cl.	-
Density	9.4
Level	FULL
Max rec. temp., deg F.	117
Operating rig time	2 1/2 HOURS
Recorded by	SCHULTZ
Witnessed by	MR. LANGE & MR. GRAS

No.	BORE-HOLE RECORD			CASING RECORD			
	Bit	From	To	Size	Wgt.	From	To
1	7 7/8	316	6063	10 3/4	32.75	SURF.	316

The well name, location and borehole reference data were furnished by the customer.

Run No.	EQUIPMENT DATA						CALIBRATION DATA		Logging Unit	Location
	PGP.	PDH-A	PGH-A	PGS.	Source No.	SFT-106	SGH	SGH		
1	273	317	283	66	324	269	99	99	3860	FARM.
2										
3										
Run No.	Gamma Ray		FDC — Before Log — ACPS		FDC — After Log — ACPS		P ₁	P ₂	P ₁	P ₂
	API Scale	Background CPS	Total CPS	Total CPS	P ₁	P ₂				
1	150	64	430	430	760	760	360	360	760	760
2										
3										

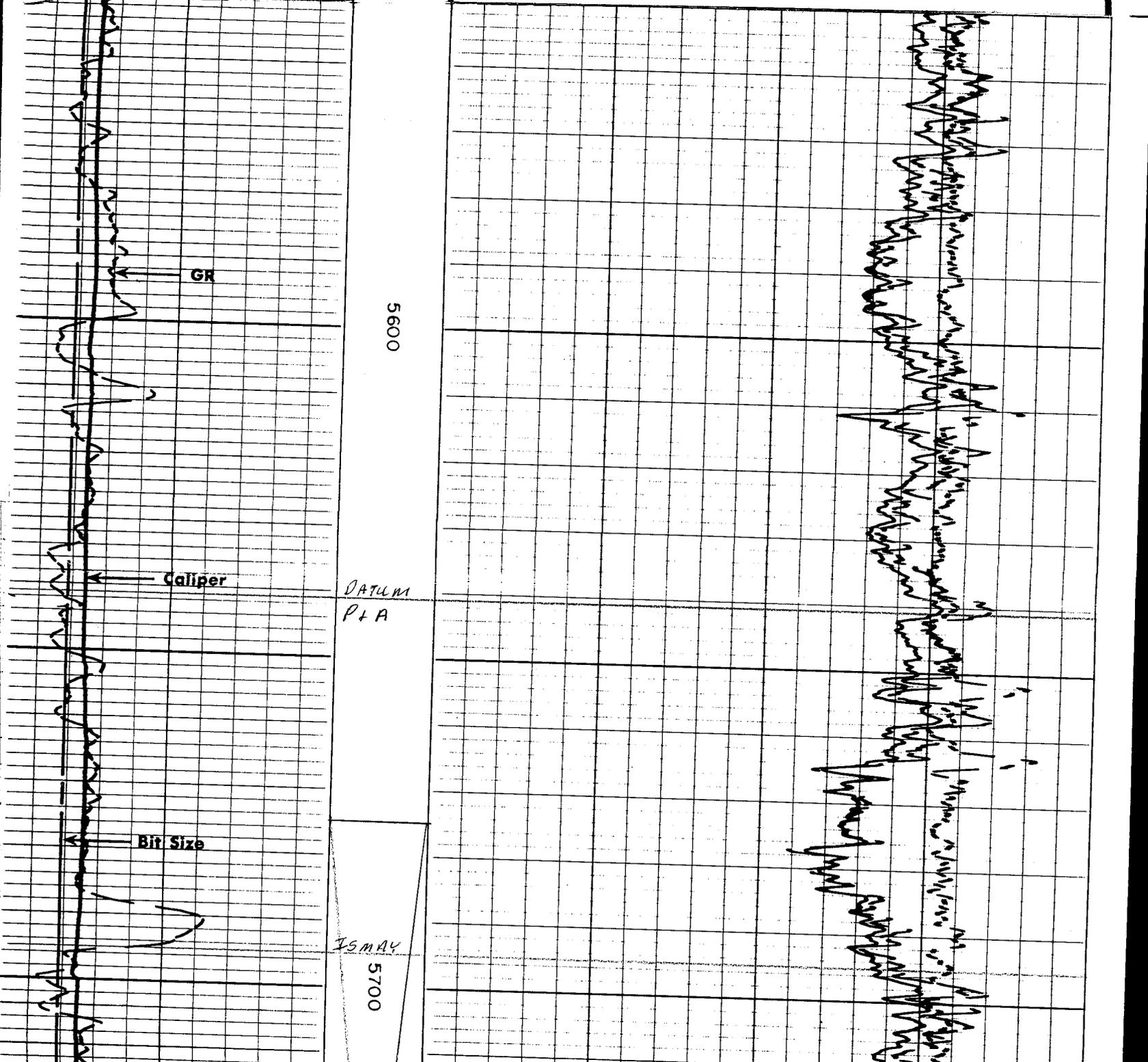
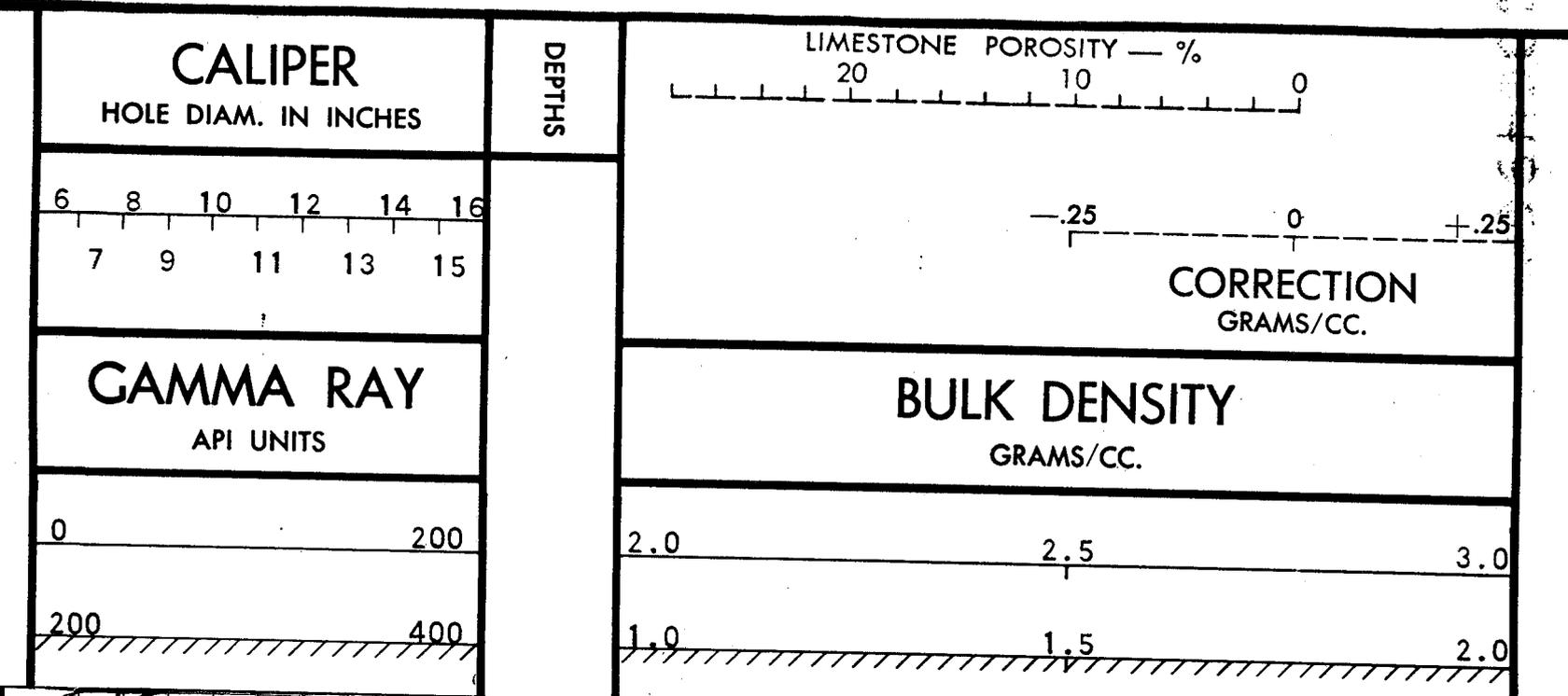
LOGGING DATA

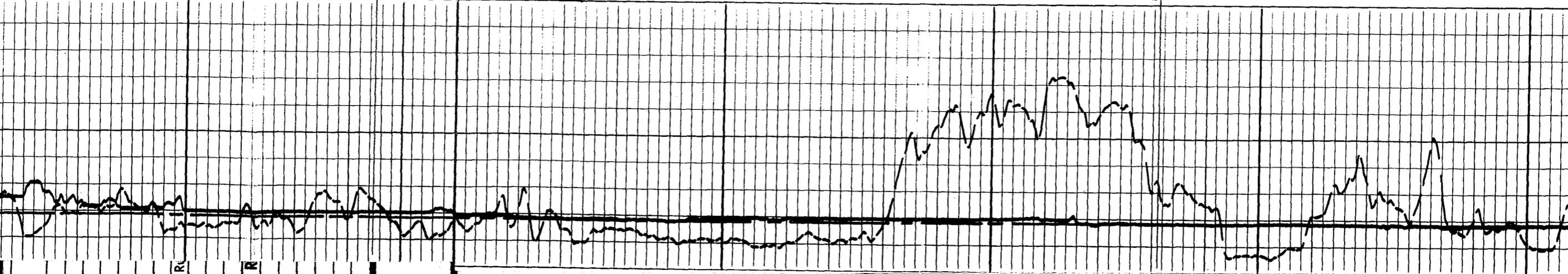
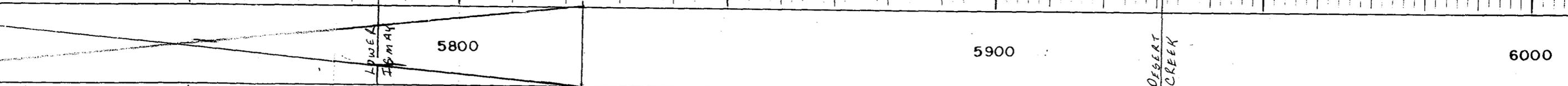
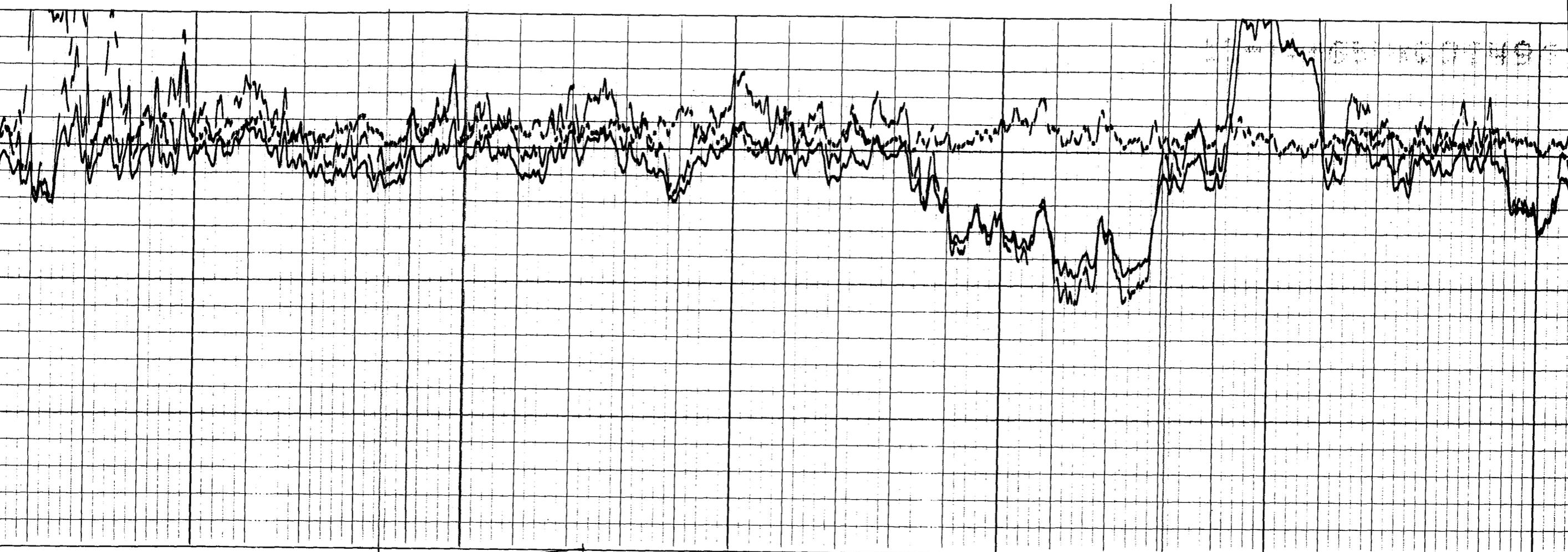
Run No.	General		Speed Ft./Min.	Tc	Gamma Ray	FDC Selectors			
	From	To				API Scale	Liquid Density	Grain Density	Hole Fluid
1	4400	6068	30	2	0-200	1	2.71	LIQ.	30-10-10

Run No.	Rm.	@	°F	% Solids by Vol.	% Oil by Vol.	% Water by Vol.	Viscosity, Sec/Qt @	°F	Solids, Av. Sp. Gr.
1	@		°F				@	°F	
2	@		°F				@	°F	
3	@		°F				@	°F	

Remarks:

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.





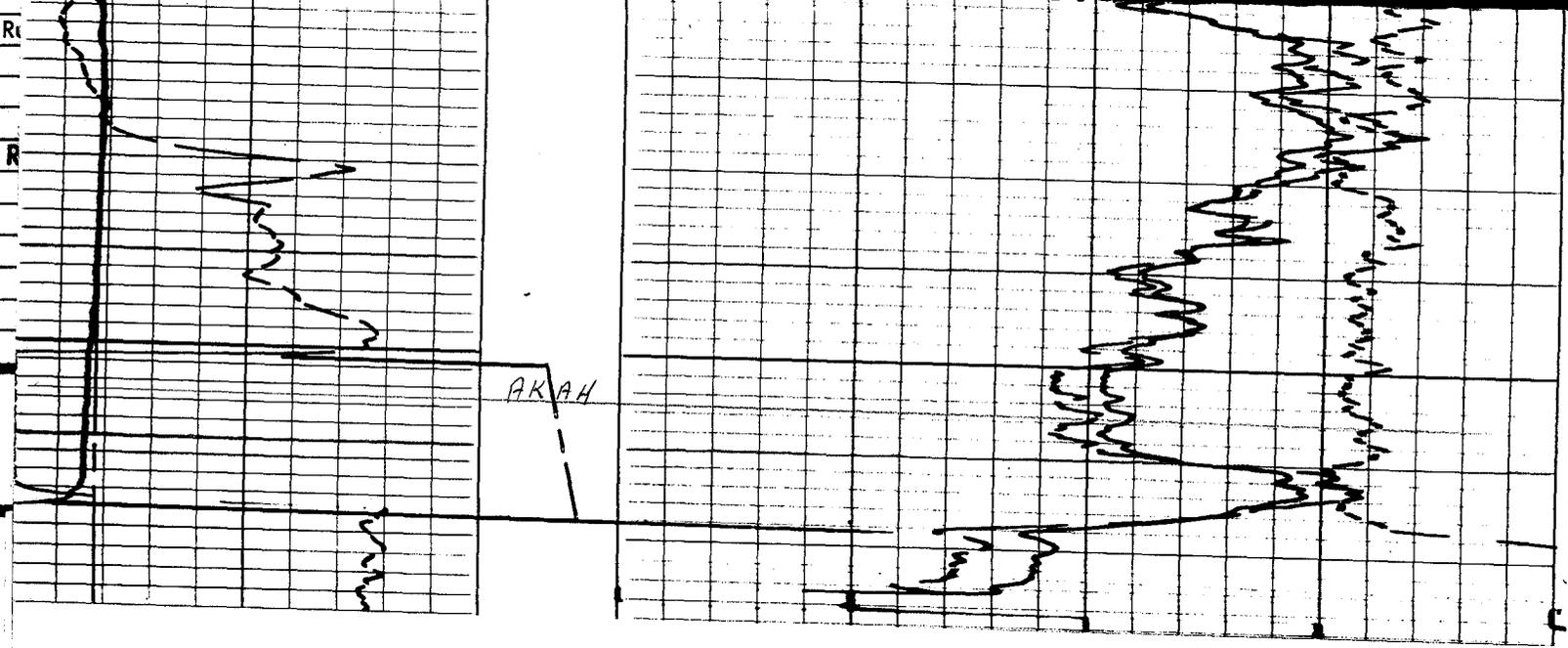
LOWER
15 MAY

5800

5900

DESERT
CREEK

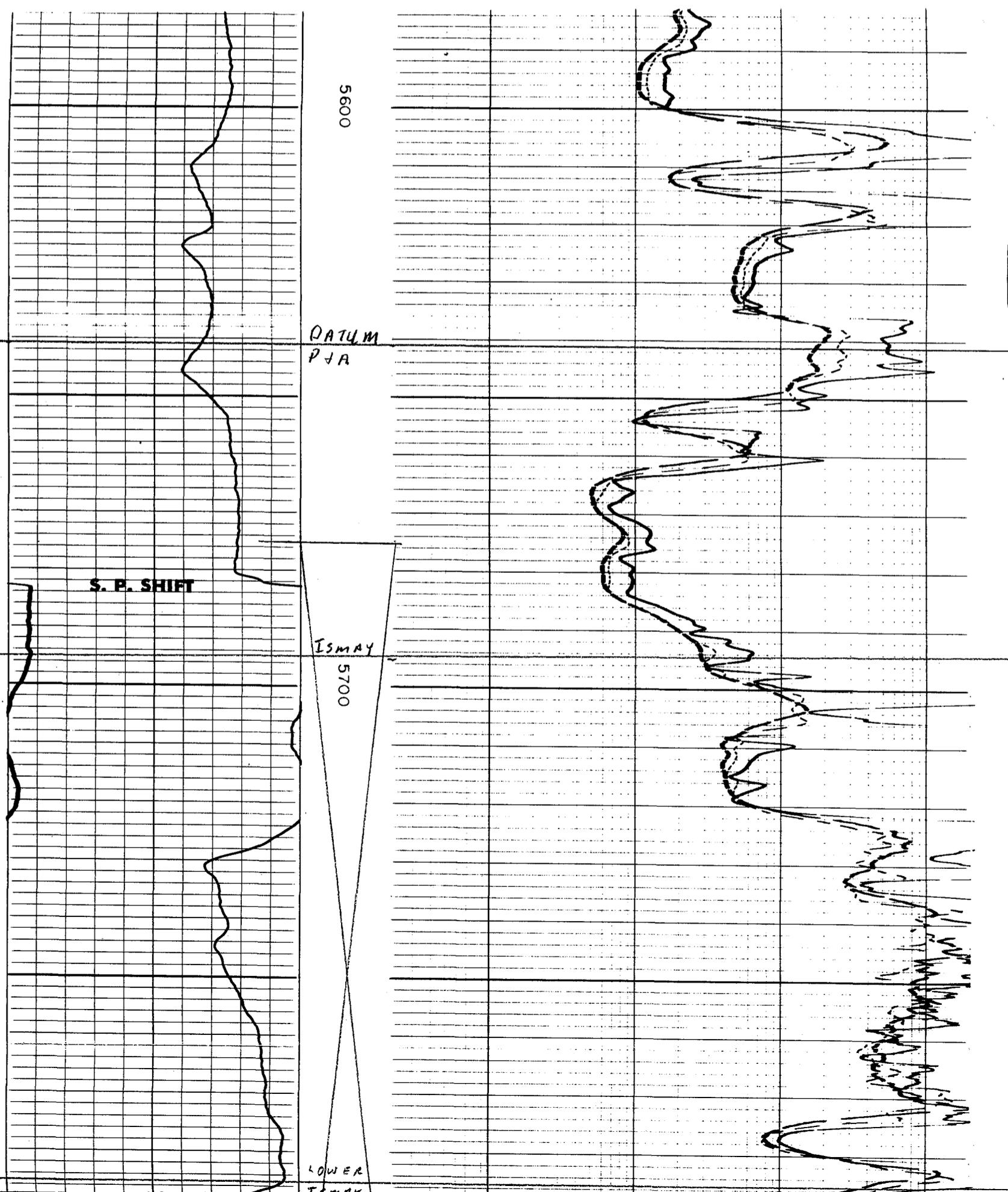
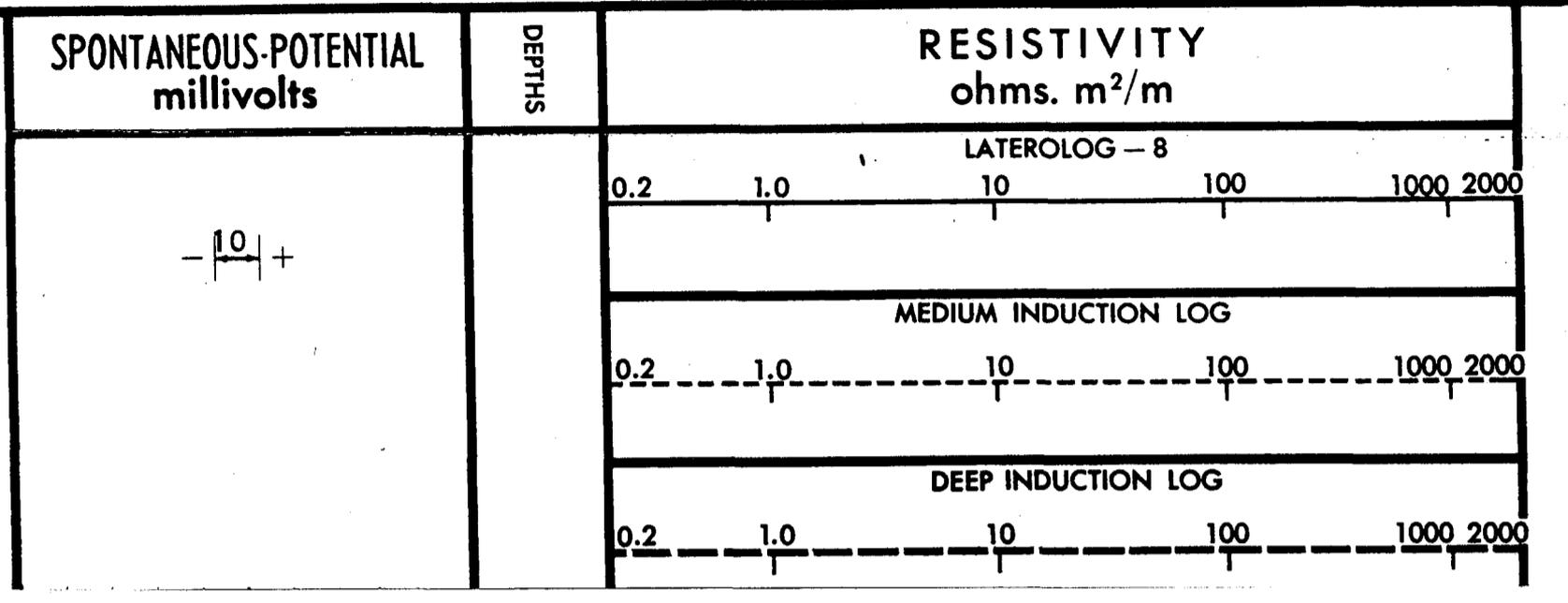
6000

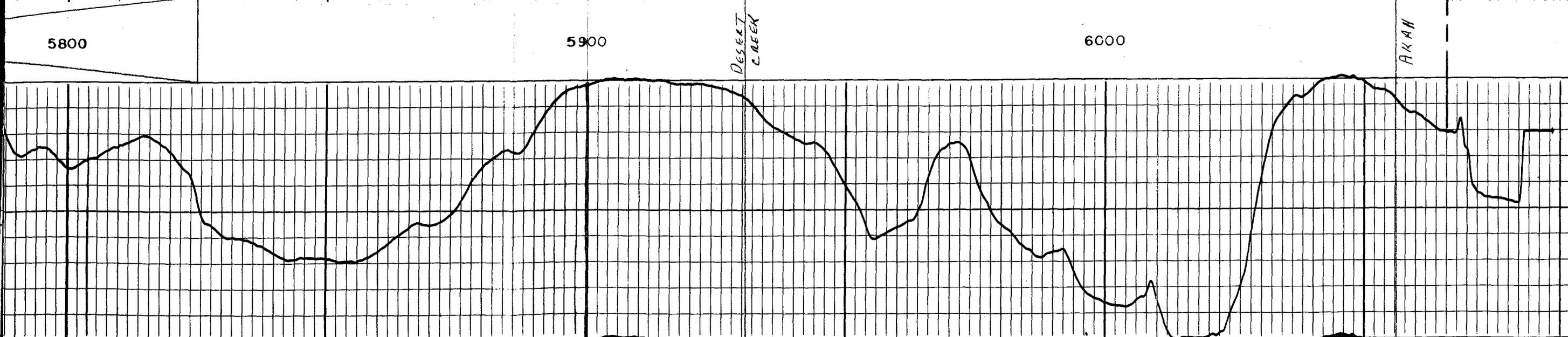
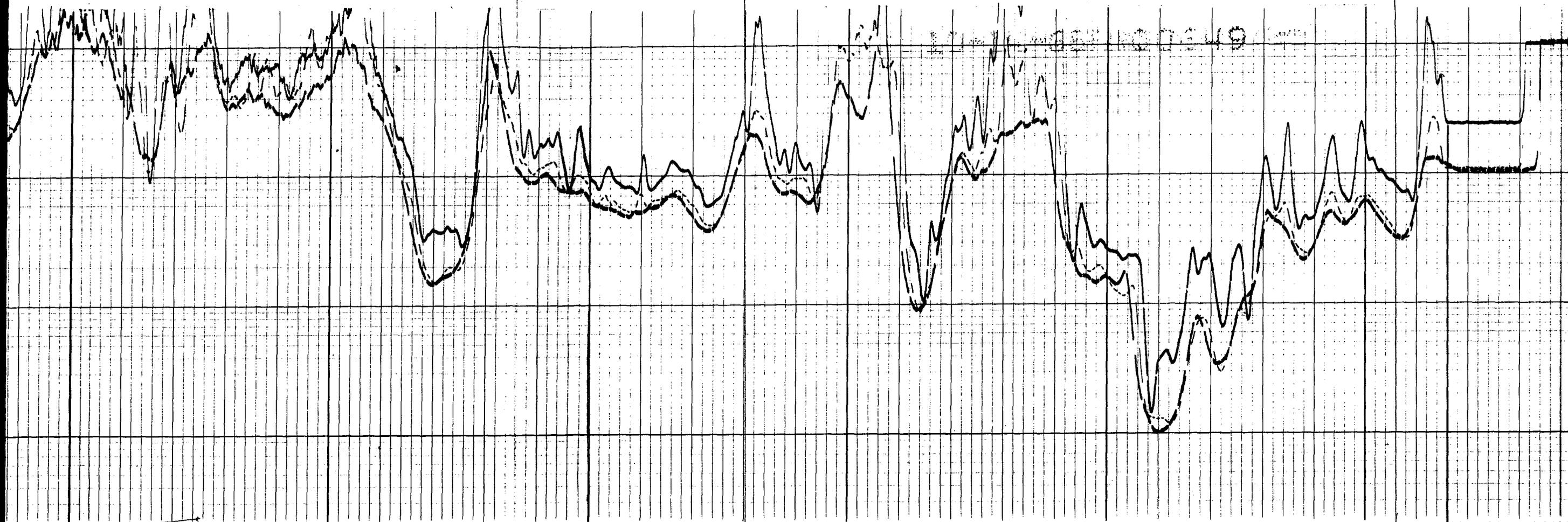


Source: R _{mf}	R _{mc}				
R _m @ BHT	@	°F	@	°F	
R _{mf} @ BHT	@	°F	@	°F	
R _{mc} @ BHT	@	°F	@	°F	

Run No.: ONE
 C.D.: USED
 S.O.: 1.5
 Equip. PANEL No.: 90A
 Used: CART. No.: 44B
 SONDE No.: X3B
 IAP No.: 251
 S.B.R.: 4

Check one, filling in blanks where applicable:
 Surface determined sonde errors used for ILM and ILD.
 ILM and ILD sonde errors corrected for _____ inch borehole signal at R_m = _____
 ILM and ILD zeros set in hole at depth of 5855 feet.





5800

5900

6000

DESERT
CREEK

AKAH

LATEROLOG - 8

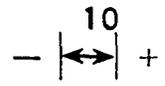
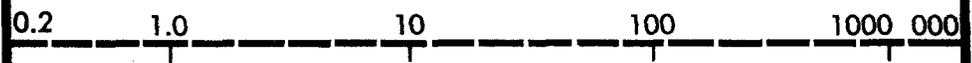
0.2 1.0 10 100 1000 2000

5

MEDIUM INDUCTION LOG



DEEP INDUCTION LOG



SPONTANEOUS-POTENTIAL
millivolts

DEPTHS

RESISTIVITY
ohms - m²/m

COMPANY MOUNTAIN FUEL SUPPLY COMPANY

WELL COWBOY #3

FIELD COWBOY

COUNTY SAN JUAN STATE UTAH

SCHL. FR 6066

SCHL. TD 6069

DRLR TD 6063

Elev: KB 4841

DF -

GL 4830

CALIBRATION DATA



SCHLUMBERGER**COMPENSATED
FORMATION DENSITY LOG**

Gamma-Gamma

 COUNTY SAN JUAN
 FIELD or
 LOCATION WILDCAT
 WELL COWBOY WELL #2
 COMPANY MT. FUEL SUPPLY
COMPANY MOUNTAIN FUEL SUPPLY COMPANYWELL COWBOY WELL #2FIELD WILDCATCOUNTY SAN JUAN STATE UTAHLocation: NW SESec. 15 Twp. 39S Rge. 22E

Other Services:

 BHC-GR
 FDC-GR
 IES
JAR

 Permanent Datum: GL; Elev.: 5011
 Log Measured From KB, 11 Ft. Above Perm. Datum
 Drilling Measured From KB

 Elev.: K.B. 5022
 D.F. 5021
 G.I. 5011

Date	8-22-68
Run No.	ONE
Type Log	FDC
Depth—Driller	6252
Depth—Logger	6257
Bottom logged interval	6256
Top logged interval	900
Type fluid in hole	FGM
Salinity, PPM Cl.	4000
Density	9.2
Level	FULL
Max rec. temp., deg F.	128
Operating rig time	3 HOURS
Recorded by	RUSEN
Witnessed by	MR. GRAS & MR. C. COLSON

RUN No.	BORE-HOLE RECORD				CASING RECORD			
	Bit	From	To	Size	Wgt.	From	To	
1	7 7/8	CSG	TD	10 3/4	-	SURF.	320	

The well name, location and borehole reference data were furnished by the customer.

EQUIPMENT DATA

Run No.	PG-P.	PDH-A	PGH-A	PGS.	Source No.	SFT-106	SGH	Logging Unit	Location
1	145D	347D	93A	41D	2349	61	174G	4542	FARM.
2									
3									

CALIBRATION DATA

Run No.	Gamma Ray		FDC — Before Log — ACPS		FDC — After Log — ACPS	
	API Scale	Background CPS	P ₁	P ₂	P ₁	P ₂
1	200	80	416	640	614	640

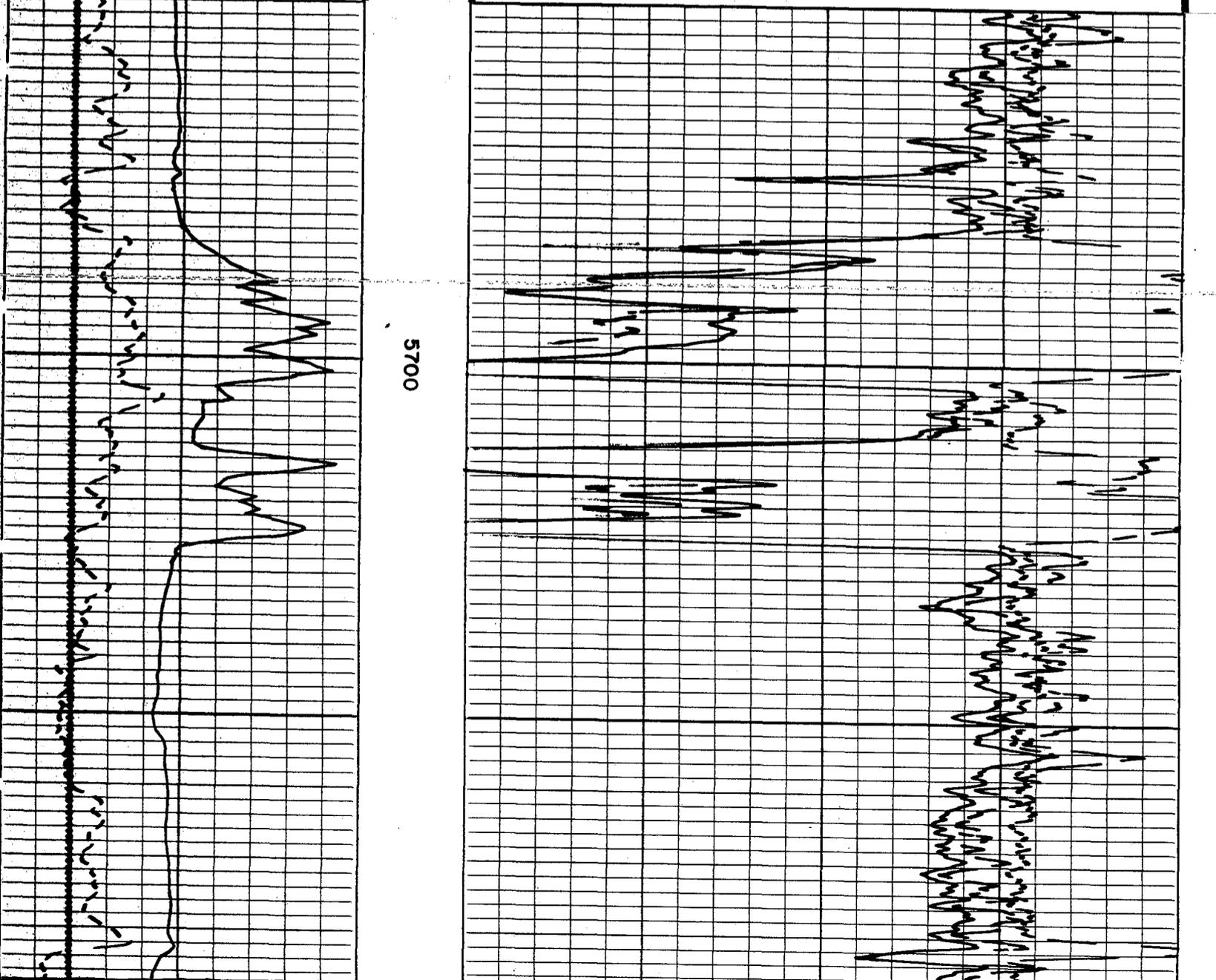
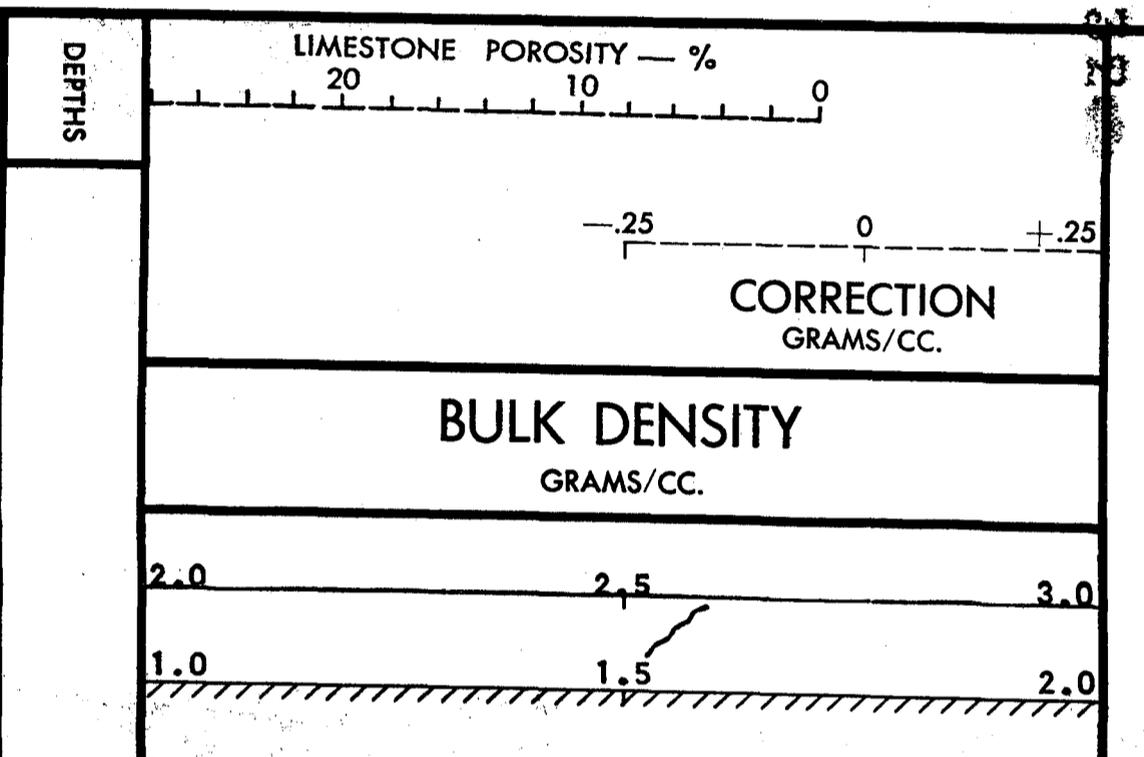
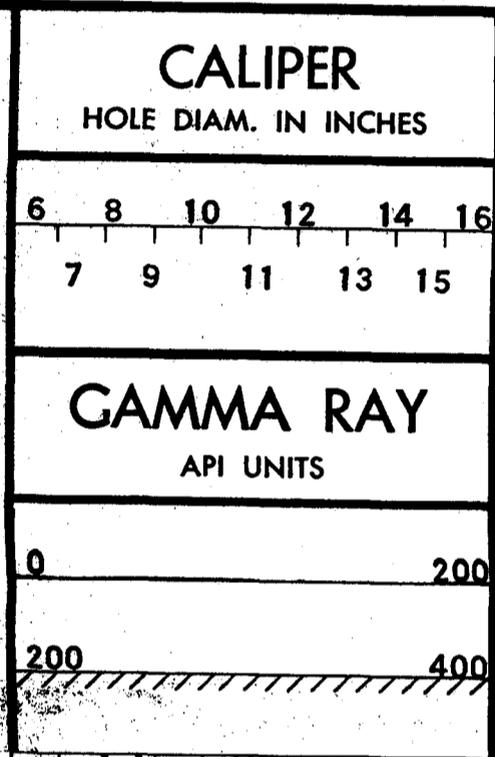
FOLD HERE

LOGGING DATA									
General				Gamma Ray		FDC Selectors			
Run No.	Depths		Speed Ft./Min.	Tc	API Scale	Liquid Density	Grain Density	Hole Fluid	Porosity Scale
	From	To							
1	TD	5000	30	2	200	1.05	2.71	LIQ.	30-10-0
1	1300	900	30	2	200	1.05	2.65	LIQ.	30-10-0

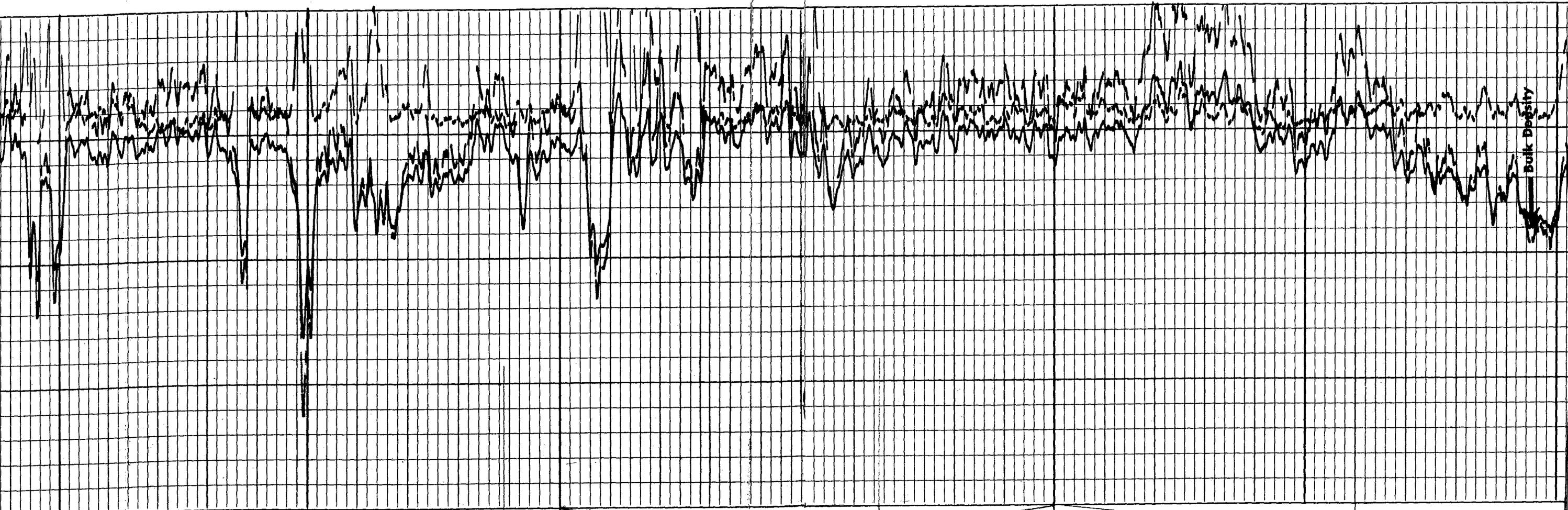
MUD DATA									
Run No.	Rm.	@	°F	% Solids by Vol.	% Oil by Vol.	% Water by Vol.	Viscosity, Sec/Qt @	°F	Solids, Av. Sp. Gr.
1		@	°F				@	°F	
2		@	°F				@	°F	
3		@	°F				@	°F	

Remarks:

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.



28-68100-0-130



5800

DATUM
P+ A

ISMAY

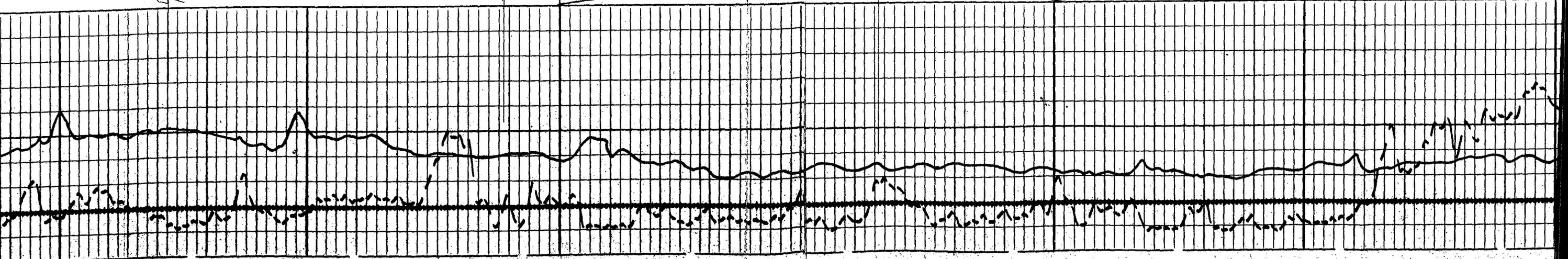
5900

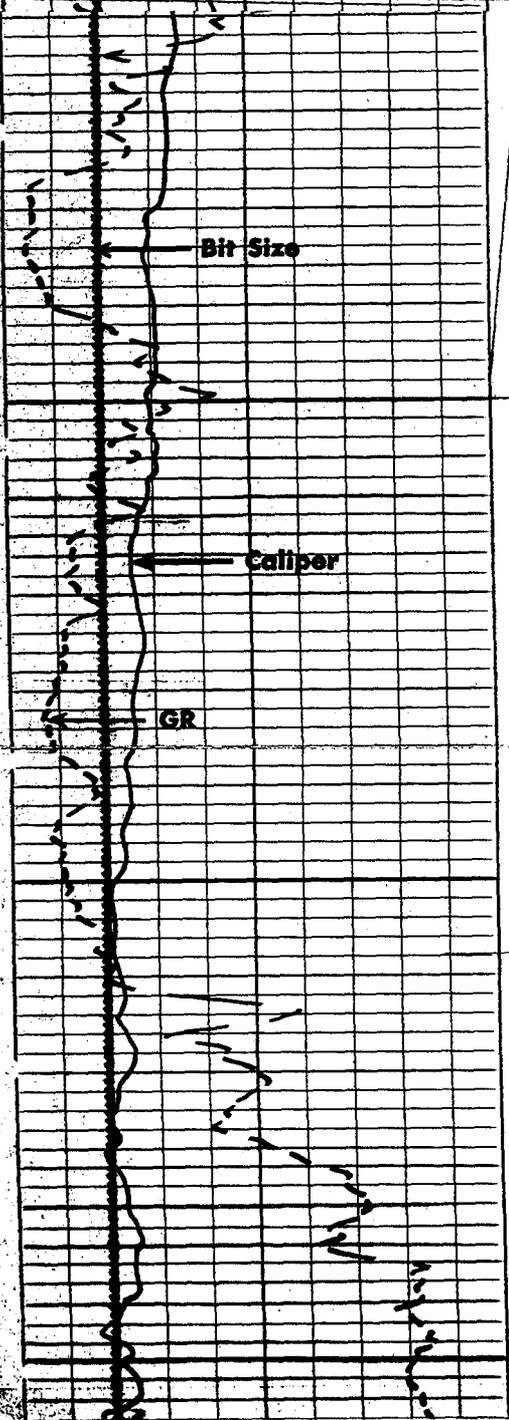
LOWER
ISMAY

6000

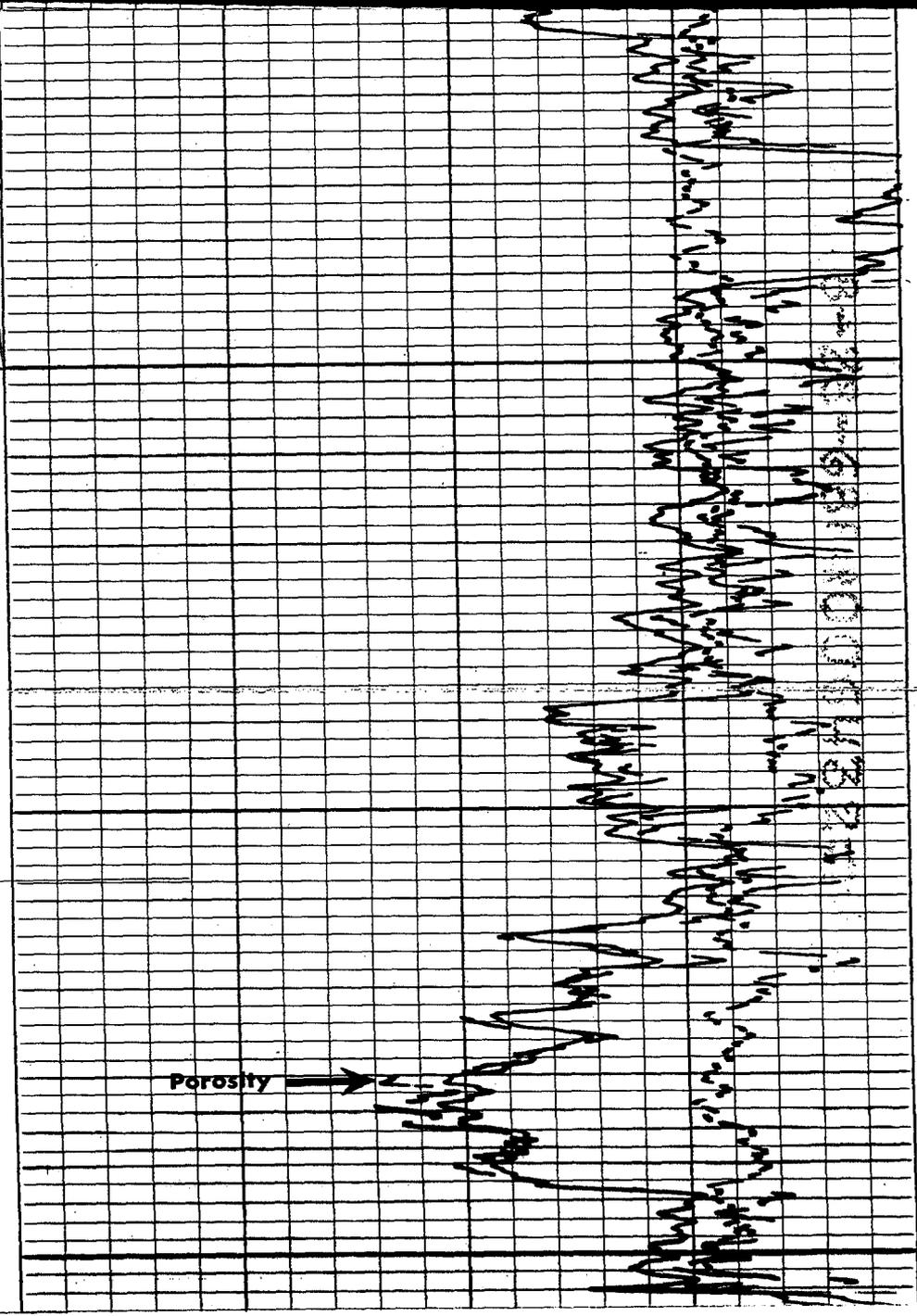
DEAR
CREEK

6100





6200
AKAH



SCHLUMBERGER**INDUCTION-ELECTRICAL LOG**COUNTY SAN JUANFIELD or
LOCATIONWILDCATWELL COWBOY WELL #2COMPANY MT. FUEL SUPPLYCOMPANY MOUNTAIN FUEL SUPPLY COMPANYWELL COWBOY WELL #2FIELD WILDCATCOUNTY SAN JUAN STATE UTAHLOCATION NW SESec. 15 Twp. 39S Rge. 22E

Other Services:

FDC-GR

SNP-GR

BHC-GR

518
 Permanent Datum: GL, Elev. 5011
 Log Measured From KB, 11 Ft. Above Perm. Datum
 Drilling Measured From KB
Elev.: K.B. 5022D.F. 5021G.L. 5011

Date	8-22-68				
Run No.	ONE				
Depth—Driller	6252				
Depth—Logger	6258				
Thm. Log Interval	6257				
Top Log Interval	320				
Logging—Driller	10 3/4 @ 320	@	@	@	@
Logging—Logger	320				
Bit Size	7 7/8				
Type Fluid in Hole	FGM				
Dens.	9.2	52			
Visc.					
pH	12.5	7.0 ml	ml	ml	ml
Fluid Loss					
Source of Sample	CIRC.				
R _m @ Meas. Temp.	.82 @ 85 °F	@ °F	@ °F	@ °F	@ °F
R _{mt} @ Meas. Temp.	.59 @ 80 °F	.37 @ 128 °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	.48 @ 128 °F	@ °F	@ °F	@ °F	@ °F
Source: R _{mt} R _{mc}	M C				
R _m @ BHT	55 @ 128 °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	17 HOURS				
Max. Rec. Temp.	128 °F	°F	°F	°F	°F
Equip. Location	4542 FARM.				
Recorded By	RUSEN				
Witnessed By	MR. GRAS & MR. C. COLSON				

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE

REMARKS

Changes in Mud Type or Additional Samples

Date Sample No.

Depth—Driller

Type Fluid in Hole

Dens. Visc.

Scale Changes

Scale Up Hole

Scale Down Hole

Depth

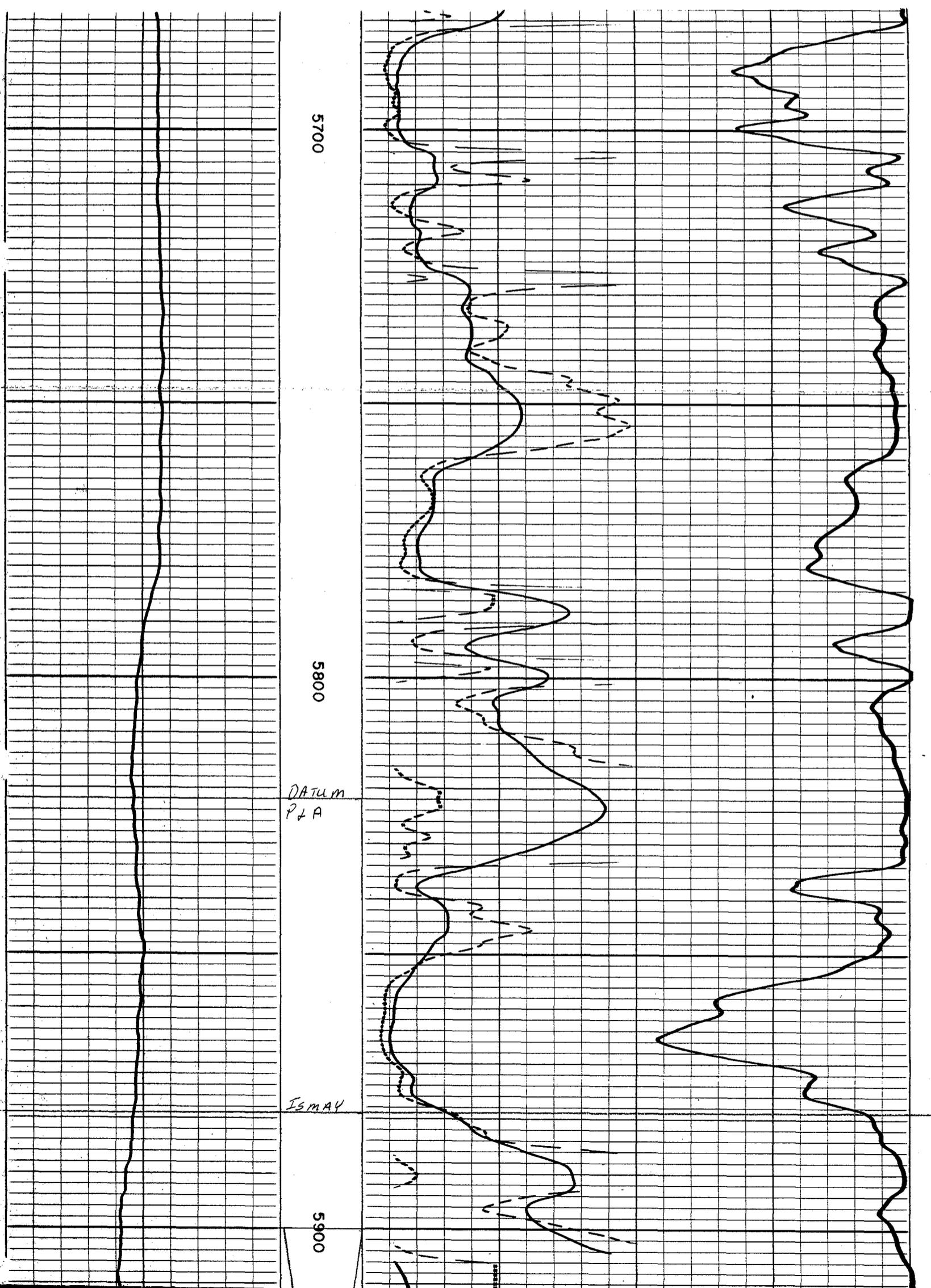
Type Log

Source of Sample				Run No.	Tool Type	Equipment Data		Other
R _m @ Meas. Temp.	@ °F	@ °F	@ °F			Tool Position		
R _{mf} @ Meas. Temp.	@ °F	@ °F	@ °F					
R _{mc} @ Meas. Temp.	@ °F	@ °F	@ °F					
Source: R _{mf} R _{mc}								
R _m @ BHT	@ °F	@ °F	@ °F					
R _{mf} @ BHT	@ °F	@ °F	@ °F					
R _{mc} @ BHT	@ °F	@ °F	@ °F					

B-28-6811000433

Run No.: ONE
 C.D.: USED
 S.O.: 1 1/2"
 Equip. PANEL No.: 529D
 Used: CART. No.: 194F
 SONDE No.: 334K
 IAP No.: 170D
 S.B.R.: 4

Check one, filling in blanks where applicable:
 Surface determined sonde errors used for 6FF40.
 6FF40 sonde error corrected for _____ inch
 borehole signal at R_m = _____
 6FF40 zero set in hole at depth of _____ feet.





LOWER
ISMAV

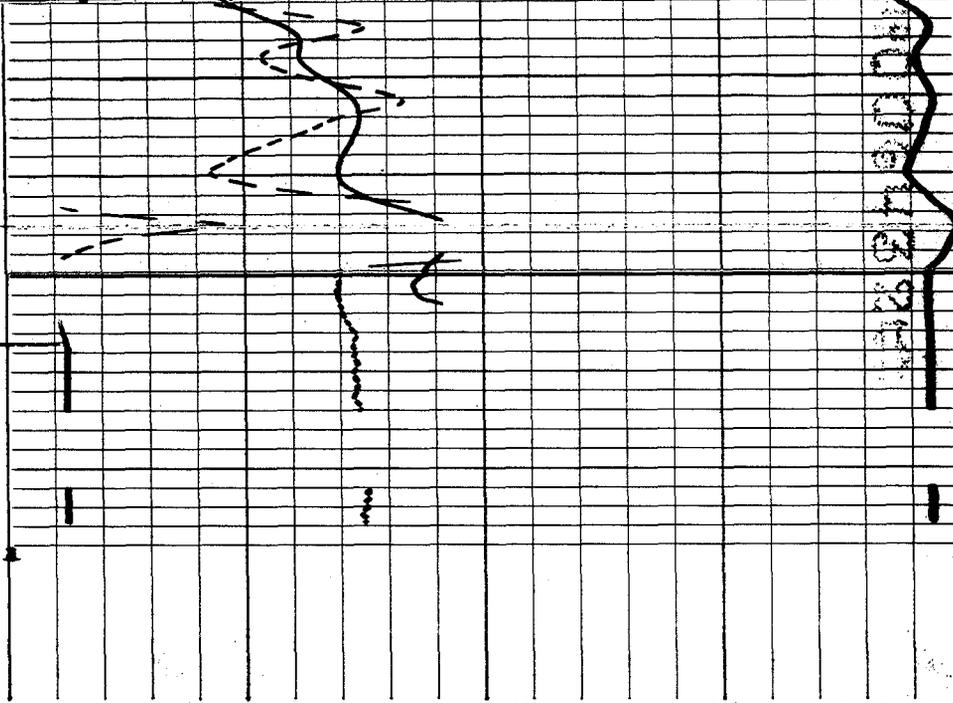
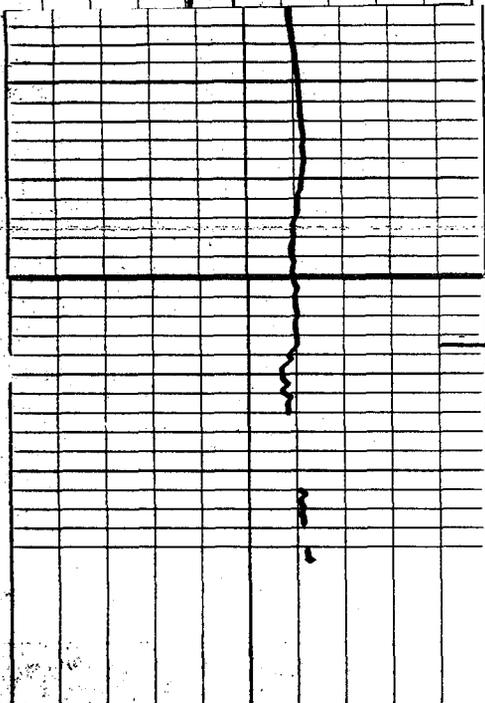
6000

DESERT
CREEK

6100

6200

AKAH



1126279000

A - 16" - M
SHORT NORMAL

0 100

0 1000

INDUCTION

0 100

0 1000

RESISTIVITY
ohms - m²/m

400 6FF40 INDUCTION 200 0

600 400

- |10| +

SPONTANEOUS-POTENTIAL
millivolts

DEPTHS

CONDUCTIVITY
millimhos/m = $\frac{1000}{\text{ohms} - \text{m}^2/\text{m}}$

COMPANY MOUNTAIN FUEL SUPPLY COMPANY
 WELL COWBOY WELL #2
 FIELD WILDCAT
 COUNTY SAN JUAN STATE UTAH

SCHL. FR 6257
 SCHL. TD 6258
 DRLR TD 6252
 Elev: KB 5022
 DF 5021
 GL 5011

CALIBRATION DATA





GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

December 1, 2009

Certified Mail No. 70041160000301903669

Seeley Oil Company, LLC
P.O. Box 9015
Salt Lake City, UT 84109

SUBJECT: Plan of action for Cowboy 1, API# 43-037-30012, San Juan County, Utah:

39S 22E 14

Gentlemen:

On October 28, 2009 the Cowboy 1 well failed the 5-year standard annuals pressure test. At that time company representation was unsure of plans as they related to well repair. Since that time no correspondence has occurred between the Division and Seeley Oil Company, LLC. Therefore I'm issuing this letter as a reminder that under the Underground Injection Control program (UIC) operators are allowed 120 days to plug or repair injection wells failing MIT tests. As you are aware, nearly 30 days have already passed since the Cowboy 1 well fail the initial standard annuals pressure test.

Response should be directed to:

Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, UT 84114-5801

If you have questions feel free to contact me at (435) 820-0862.

Sincerely,

Bart Kettle
Environmental Scientist

bk/dj/js

cc: Dan Jarvis, Operations Manager
Well File



7004 1160 0003 0190 3669

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

OFFICIAL USE

Postage	\$	12/1/09 Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Pos		

Sent To **SEELEY OIL COMPANY LLC**
 Street, Apt. or PO Box **PO BOX 9015**
 City, State **SALT LAKE CITY UT 84109**

PS Form 3800, June 2002 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

SEELEY OIL COMPANY LLC
PO BOX 9015
SALT LAKE CITY UT 84109

RECEIVED
DEC 8 3 2009

2. Article Number
 (Transfer from service label) **DIV. OF OIL, GAS & MINING**
7004 1160 0003 0190 3669

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
X BK Sooley

B. Received by (Printed Name) Date of Delivery
BK Sooley

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes



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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: U-0145834
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Water Disposal</u>		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: Seeley Oil Company		8. WELL NAME and NUMBER: Cowboy #1
3. ADDRESS OF OPERATOR: P.O. Box 9015 CITY Salt Lake City STATE ut ZIP 84109		9. API NUMBER: 4303730012
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980' N/S - 660' E/W COUNTY: San Juan QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSW 14 39s 22e STATE: UTAH		10. FIELD AND POOL, OR WILDCAT: Cowboy Field

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <u>3/4/2010</u>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

Operations witnessed by Jeff Brown.

02/20/2010 RIH w/ blanking plug to set in SN. Did not set. Retrieved plug. MIRU w/ RedRock Well Svc. Top packer 5542. Set CIBP @5500'. Cut off tubing @5457'. Run Cement bond log 4100'-5400'. Cement top @ 4400'. Spot 30 sax cement @5450. Set packer @4422. Pressure test casing with 500 lbs/ 30 min. with no pressure drop. retrieved the packer. Set CIBP @5180' with 30 sax of cement on top; pressure test to 500 lbs for 30 min with 30 lbs bleed off. Tag cement top @5100'. Circulate with 9lb mud. Perf 2880'-2881' w/ 4 holes; tried to circulate to surface w/ 900 lbs. No circulation to surface. No Pressure drop in 30 min. Perf. 2500'-2501' w/ 4 holes, good circulation to surface. Set CR. @ 2479' Pumped 35 sax below, set 10 sax on top of CR. Perforated 1800'-1801' w/ 4 holes, had good circulation to surface. Set CR @ 1781. Pumped 23.7 bbl cement below CR, and 3.3 bbl on top CR. Perf 1000'-1001' w/ 4 holes, no circulation to surface with 1000lb press. Perf 777'-778' w/ 4 holes, good circulation to surf. Set CR @ 756', pumped 21 bbl cement below cement retainer. BJ services was then out of cement. Taged top cement retainer. Set 15 sax on top of cement retainer. Spot plug @587' w/ 15 sax cement. Pressure tested to 500 lbs, all held. Cut off well head below ground level. Set cement 50' - surface. Both casing and annulus. Welded steel plate with information on top of well head. Reclaimed location.

NAME (PLEASE PRINT) <u>B.K. Seeley</u>	TITLE <u>President</u>
SIGNATURE	DATE <u>4/6/2010</u>

(This space for State use only)

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DIV. OF OIL, GAS & MINING