Form 9-330
(Rev. 5-63)

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.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

RECEIVED
OCT 15 1985
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA
OCT 21 1985
OIL CON. DIV.
DIST. 3

5. LEASE DESIGNATION AND SERIAL NO.: NOO-C-14-20-4158

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Navajo 32

9. WELL NO.: 4

10. FIELD AND POOL, OR WILDCAT: Beautiful Mountain

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 32-27N-19W NMPM

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other Helium

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

2. NAME OF OPERATOR: S. E. R. H., Inc.

3. ADDRESS OF OPERATOR: P. O. Box 312, Otis, Kansas 67565

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1850' fSL; 795' fWL NW/4 SW/4 Unit L
At top prod. interval reported below: Same
At total depth:

14. PERMIT NO.: DATE ISSUED: App. 7/25/85

12. COUNTY OR PARISH: San Juan

13. STATE: New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
8-21-85	9-11-85	Flow to clean up	5926' Gr.; 5939' KB	5927'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
6142'	6100'	2	→	All	None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Organ Rock 3876' to 3931' Gross & 31' net.
Note: Dual well with Mississippian

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN
Gearhart - DIL; Gr. D/N; BCS; MSFL; CBL

27. WAS WELL CORED: Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	68.0 New	73'	17-1/2"	100 sx. Cl. B to surface	0
8-5/8"	24.0 New	1487' J	12-1/4"	780 sx. Cl. B to surface	0
5-1/2"	15.5 New	6142' K	7-7/8"	450 sx. 50/50 Poz 1st. stg.	0
	2nd. Stage collar @ 3972'			800 sx. HOWCO-Lite & 216 sx. 50/50 Poz.	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
	None			

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
1½" EUE	6075	Bkr. R-3 4089'
1¼" IJ	3889	-

31. PERFORATION RECORD (*Interval, size and number*)
Organ Rock perofs by Blue Jet w/MK-4 (0.30") @ 3876' - 81' - 85' - 89' - 92'; 3908' - 10' - 14' - 18'; 3927' - 29' - 31'
Total 12 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3876' - 3931'	1000 gal. 7½% Fe HCl. (breakdown)
" "	Foam frac by HOWCO w/76,000# 20/40 sd. & 75 Q foam using 1,186,88 SCF N_2. Treat @ 3000 psi. avg. 15 BPM

33.* PRODUCTION

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

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

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

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)
Note: Well is too wet to test at this time. Will move in tank and flow for clean up.

TEST WITNESSED BY

35. LIST OF ATTACHMENTS
Same as Mississippian Completion Log.

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

SIGNED John M. Heller TITLE Consultant DATE October 9, 1985
John M. Heller

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Organ Rock	3754	4147	Cored from 3784' to 3966' See Core Lab attachment
" "	"	"	DST #1 by HOWCO. 3776' to 3967'; Rec. 475' Slight gas cut mud. Very light blow during test. See HOWCO Report attached.
Mississippian	5940	6082	Cored from 5942' to 6112' See Core Lab attachment Flowed inert gasses after stimulation from perf.'s 6011'-22'& 6071'-80'.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Dakota	130'*	Same
Morrison	350'*	"
Entrada	1450'*	"
Navajo	1820'*	"
Kayenta	2180'*	"
Wingate	**2360'***	"
Chinle	2530'*	"
Shinarump	2880'*	"
Moenkopi	2980'*	"
DeChelly	3154'	"
Organ Rock	3754'	"
Cutler	4147'	"
Hermosa	4868'	"
Ismay	5366'	"
Desert Creek	5458'	"
Akah	5560'	"
Barker Creek	5637'	"
Molas	5906'	"
Mississippian	5940'	"
Devonian	6082'	"
TD (SLM)	6142'	"

U.S. GOVERNMENT PRINTING OFFICE: 1963 O-683636

GPO 680-378

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS REPORT

FOR

S.E.R.H., INC.

NAVAJO # 4-32
BEAUTIFUL MTN BIG GAP
SAN JUAN, N.M.

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

S.E.R.H., INC.
NAVAJO # 4-32
BEAUTIFUL MTN BIG GAP
SAN JUAN, N.M.

DATE : 1-SEPT-1985
FORMATION : ORGAN ROCK
DRLG. FLUID: WBM
LOCATION : NW.SW SEC. 32-T27N-R19W

FILE NO : 3803-003402
ANALYSTS : DS:EU
ELEVATION: 5938 KB

CONVENTIONAL ANALYSIS-BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	PERM. TO AIR (MD) 90 DEG	POR. He	FLUID SATS. OIL	FLUID SATS. WTR	GRAIN DEN	DESCRIPTION
	ORGAN ROCK CORE # 1 3784-3844							
	3784.0-11.0							SANDSTONE/SHALE -- NO ANALYSIS
1	3811.0-12.0	0.01		6.9	0.0	20.5	2.64	SD RD VFGRN
2	3812.0-13.0	0.24		10.3	0.0	75.3	2.67	SD RD VFGRN CALC STR **
3	3813.0-14.0	0.07		9.4	0.0	85.7	2.65	SD RD VFGRN
4	3814.0-15.0	0.02		6.7	0.0	88.1	2.64	SD RD VFGRN
5	3815.0-16.0	0.13		8.4	0.0	28.7	2.64	SD RD VFGRN SL/CALC
6	3816.0-17.0	0.23		11.8	0.0	74.1	2.66	SD RD VFGRN SL/PYR
7	3817.0-18.0	0.01		2.5	0.0	23.7	2.81	SD RD VFGRN SL/CALC SL/PYR CGL
8	3818.0-19.0	<0.01		3.4	0.0	41.3	2.80	SD RD VFGRN SL/CALC SL/PYR CGL
9	3819.0-20.0	0.18		7.0	0.0	15.7	2.65	SD RD-WH FNGRN SL/CALC
10	3820.0-21.0	0.10		7.3	0.0	51.3	2.64	SD RD-WH FNGRN SL/CALC
11	3821.0-22.0	0.12		7.0	0.0	14.6	2.65	SD WH FNGRN SL/CALC
12	3822.0-23.0	0.01		2.5	0.0	18.9	2.69	SLT RD SL/SD SL/PYR
13	3823.0-24.0	0.16		2.2	0.0	27.2	2.70	SLT RD SL/SD SL/PYR **
	3824.0 43.0							SANDSTONE/SHALE -- NO ANALYSIS
	3843.0-44.0							CORE LOSS
	3844.0-46.0							DRILLED 2 FEET
	ORGAN ROCK CORE # 2 3846-3906							
	3846.0-79.0							SANDSTONE/SHALE -- NO ANALYSIS
14	3879.0-80.0	3.58		12.6	0.0	64.4	2.62	SD DKRD FN-MEDGRN SL/SHY
15	3880.0-81.0	4.96		14.3	0.0	62.3	2.61	SD DKRD FN-MEDGRN SL/SHY
16	3881.0-82.0	0.36		11.0	0.0	59.0	2.62	SD DKRD FN-MEDGRN SL/SHY
17	3882.0-83.0	2.88		13.7	0.0	55.7	2.62	SD DKRD FN-MEDGRN SL/SHY

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

S.E.R.H., INC.
NAVAJO # 4-32

DATE : 1-SEPT-1985
FORMATION : ORGAN ROCK

FILE NO : 3803-003402
ANALYSTS : DS:EV

CONVENTIONAL ANALYSIS-BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	90 DEG	POR. He	FLUID SATS. OIL	WTR	GRAIN DEN	DESCRIPTION
18	3883.0-84.0	4.84		12.1	0.0	51.5	2.62	SD DKRD FN-MEDGRN SL/SHY
19	3884.0-85.0	0.05		7.4	0.0	65.6	2.64	SD DKRD FN-MEDGRN SL/SHY
20	3885.0-86.0	0.66		5.9	0.0	53.4	2.64	SD DKRD FN-MEDGRN SL/SHY
21	3886.0-87.0	3.82		6.2	0.0	51.7	2.63	SD DKRD FN-MEDGRN SL/SHY
22	3887.0-88.0	1.05		4.9	0.0	41.1	2.63	SD DKRD FN-MEDGRN SL/SHY
23	3888.0-89.0	8.44		11.5	0.0	46.6	2.65	SD DKRD FN-MEDGRN SL/SHY
24	3889.0-90.0	3.88		9.4	0.0	40.0	2.66	SD LTRD FN-MEDGRN
25	3890.0-91.0	0.05		6.3	0.0	48.3	2.66	SD DKRD FNGRN
26	3891.0-92.0	6.75		13.6	0.0	44.6	2.64	SD RD FN-MEDGRN SL/SHY
27	3892.0-93.0	0.26		8.1	0.0	56.8	2.65	SD RD FNGRN
28	3893.0-94.0	0.65		12.4	0.0	77.2	2.67	SD DKRD FN-MEDGRN SL/PYR
29	3894.0-95.0	0.09		5.3	0.0	37.3	2.68	SD LTRD FNGRN SL/PYR
	3895.0-06.0							SANDSTONE/SHALE -- NO ANALYSIS
	ORGAN ROCK CORE # 3 3906-3966							
	3906.0-11.0							SANDSTONE/SHALE -- NO ANALYSIS
30	3911.0-12.0	0.19		12.0	0.0	58.9	2.63	SD DKRD VF-FNGRN SL/SHY
31	3912.0-13.0	0.20		10.6	0.0	62.6	2.63	SD RD FNGRN SL/SHY
32	3913.0-14.0	0.01		1.0	0.0	52.5	2.74	SD RD VF-FNGRN SL/CALC SL/PYR
33	3914.0-15.0	0.15		9.4	0.0	49.1	2.65	SD RD FNGRN SL/SHY
34	3915.0-16.0	0.33		8.7	0.0	53.6	2.67	SD RD FNGRN SL/PYR
35	3916.0-17.0	0.23		7.4	0.0	43.2	2.65	SD RD FNGRN
36	3917.0-18.0	5.04		12.7	0.0	55.5	2.62	SD LTRD FNGRN SL/SHY
37	3918.0-19.0	4.70		14.2	0.0	51.0	2.62	SD LTRD FNGRN SL/SHY
38	3919.0-20.0	3.93		13.5	0.0	55.3	2.62	SD LTRD FNGRN SL/SHY
39	3920.0-21.0	2.72		11.5	0.0	49.1	2.63	SD LTRD FNGRN SL/SHY
40	3921.0-22.0	0.01		1.0	0.0	58.9	2.65	SD RD VFGRN
	3922.0-50.0							SANDSTONE/SHALE -- NO ANALYSIS
41	3950.0-51.0	0.01		4.7	0.0	93.1	2.67	SD RD VFGRN SL/PYR

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

S.E.R.H., INC.
NAVAJO # 4-32

DATE : 1-SEPT-1985
FORMATION : ORGAN ROCK

FILE NO : 3803-003402
ANALYSTS : DS:FU

CONVENTIONAL ANALYSIS-BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	90 DEG	POR. He	FLUID SATS. OIL	WTR	GRAIN DEN	DESCRIPTION
42	3951.0-52.0	0.01		3.0	0.0	76.3	2.67	SD RD VFGRN SL/CALC
43	3952.0-53.0	0.02		0.6	0.0	87.1	2.72	SD RD VFGRN SL/CALC SL/PYR
	3953.0-64.0							SANDSTONE/SHALE -- NO ANALYSIS
	3964.0-66.0							CORE LOSS
	3966.0-42.0							DRILLED TO LEADVILLE FM
	LEADVILLE FORMATION CORE # 4 5942-5998							
44	5942.0-43.0	<0.01	*	0.5	0.0	64.2	2.70	LM WH VFXLN SL/SHY
45	5943.0-44.0	<0.01	*	1.0	0.0	71.0	2.72	LM WH VFXLN SL/SHY
46	5944.0-45.0	<0.01	*	0.5	0.0	80.5	2.71	LM WH VFXLN SL/SHY
47	5945.0-46.0	<0.01	*	0.7	0.0	61.7	2.71	LM WH VFXLN SL/SHY
48	5946.0-47.0	<0.01	*	0.6	0.0	56.8	2.71	LM WH VFXLN SL/SHY
49	5947.0-48.0	0.01	*	0.9	0.0	72.1	2.71	LM WH VFXLN SL/SHY
50	5948.0-49.0	<0.01	*	0.5	0.0	64.6	2.71	LM WH VFXLN SL/SHY
51	5949.0-50.0	<0.01	*	0.5	0.0	91.6	2.71	LM WH VFXLN SL/SHY
52	5950.0-51.0	<0.01	*	1.2	0.0	47.0	2.69	LM WH VFXLN SL/SHY
53	5951.0-52.0	0.06	0.05	1.4	0.0	75.9	2.69	LM WH-RD VFXLN SL/SHY CRIN STYL **
54	5952.0-53.0	0.01	*	1.5	0.0	92.1	2.68	LM WH VFXLN SL/SHY
55	5953.0-54.0	0.07	0.06	1.3	0.0	69.8	2.70	LM WH VFXLN CVF
56	5954.0-55.0	0.01	*	0.8	0.0	69.8	2.70	LM WH VFXLN SL/SHY
57	5955.0-56.0	0.21	0.04	1.4	0.0	40.4	2.70	LM LTRD FNXLN SL/SHY
58	5956.0-57.0	0.01	*	0.9	0.0	41.9	2.69	LM LTRD FNXLN SL/SHY
59	5957.0-58.0	0.01	*	1.0	0.0	42.5	2.70	LM LTRD FNXLN SL/SHY
60	5958.0-59.0	0.01	*	1.4	0.0	39.5	2.69	LM LTRD FNXLN SL/SHY
61	5959.0-60.0	0.04	0.04	1.4	0.0	34.3	2.70	LM LTRD FNXLN SL/SHY
62	5960.0-61.0	0.01	*	0.8	0.0	54.4	2.70	LM LTRD FNXLN SL/SHY
63	5961.0-62.0	<0.01	*	0.8	0.0	31.8	2.70	LM LTRD FNXLN SL/SHY
64	5962.0-63.0	0.06	0.04	1.7	0.0	19.1	2.71	LM LTRD FNXLN SL/SHY
65	5963.0-64.0	0.03	*	1.0	0.0	72.7	2.70	LM LTRD FNXLN SL/SHY

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

S.E.R.H., INC.
NAVAJO # 4-32

DATE : 1-SEPT-1985
FORMATION : ORGAN ROCK

FILE NO : 3803-003402
ANALYSTS : DS;EV

CONVENTIONAL ANALYSIS BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	90 DEG	POR. He	FLUID SATS. OIL	WTR	GRAIN DEN	DESCRIPTION
66	5964.0-65.0	0.56	0.51	3.5	0.0	80.9	2.72	LM LTRD FNXLN SL/SHY
67	5965.0-66.0	0.01	*	1.0	0.0	48.0	2.69	LM LTRD FNXLN SL/SHY
68	5966.0-67.0	0.01	*	1.1	0.0	50.1	2.69	LM LTRD FNXLN SL/SHY
	5967.0-83.0							LM/DOL SLTY -- NO ANALYSIS
69	5983.0-84.0	0.06	0.03	1.7	0.0	34.1	2.70	LM LTRD FNXLN SL/SHY
70	5984.0-85.0	0.07	0.07	1.9	0.0	24.3	2.70	LM LTRD FNXLN SL/SHY
71	5985.0-86.0	0.01	*	0.8	0.0	54.6	2.70	LM LTRD FNXLN SL/SHY CVF
72	5986.0-87.0	0.06	0.02	1.3	0.0	28.7	2.72	LM LTRD FNXLN SL/SHY
	5987.0-97.0							LM/DOL SLTY -- NO ANALYSIS
	5997.0-98.0							CORE LOSS
	LEADVILLE FORMATION CORE # 5 5998-6035							
	5998.0-00.0							LM SLTY -- NO ANALYSIS
73	6000.0-01.0	<0.01	*	1.1	0.0	32.6	2.69	LM WH FNXLN SL/SHY
74	6001.0-02.0	<0.01	*	1.0	0.0	31.3	2.70	LM WH FNXLN SL/SHY
75	6002.0-03.0	0.01	*	1.1	0.0	39.0	2.70	LM WH FNXLN SL/SHY
76	6003.0-04.0	0.37	0.36	3.1	0.0	10.0	2.70	LM WH FNXLN SL/SHY
77	6004.0-05.0	0.37	*	5.2	0.0	31.7	2.69	LM WH FNXLN SL/SHY
78	6005.0-06.0	0.25	*	5.6	0.0	9.5	2.70	LM WH FNXLN SL/SHY
79	6006.0-07.0	0.49	*	5.1	0.0	12.1	2.70	LM WH FNXLN SL/SHY
80	6007.0-08.0	2.57	*	6.0	0.0	9.5	2.69	LM WH FNXLN SL/SHY
81	6008.0-09.0	0.08	*	3.1	0.0	38.8	2.69	LM WH FNXLN SL/SHY
82	6009.0-10.0	0.96	*	5.2	0.0	10.0	2.70	LM WH FNXLN SL/SHY
83	6010.0-11.0	0.76	0.76	6.3	0.0	14.2	2.70	LM WH FNXLN SL/SHY
84	6011.0-12.0	0.46	0.41	5.7	1.6	12.4	2.70	LM WH FNXLN SL/SHY
85	6012.0-13.0	0.39	0.32	5.4	3.8	11.4	2.70	LM WH FNXLN SL/SHY
86	6013.0-14.0	0.10	0.08	2.5	8.8	10.6	2.70	LM WH VFXLN SL/SHY
	6014.0-23.0							LM SLTY -- NO ANALYSIS
87	6023.0-24.0	0.01	*	1.0	0.0	11.3	2.82	LM WH VFXLN SL/SHY SL/DOL

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

S.E.R.H., INC.
NAVAJO # 4-32

DATE : 1-SEPT-1985
FORMATION : ORGAN ROCK

FILE NO : 3803-003402
ANALYSTS : DS;EU

CONVENTIONAL ANALYSIS-BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	90 DEG	POR. He	FLUID SATS. OIL	WTR	GRAIN DEN	DESCRIPTION
88	6024.0-25.0	0.03	0.02	1.0	0.0	45.3	2.78	LM WH VFXLN SL/SHY SL/DOL
89	6025.0-26.0	0.01	*	0.6	0.0	40.6	2.70	LM WH VFXLN SL/SHY
90	6026.0-27.0	<0.01	*	1.3	0.0	43.0	2.71	LM WH VFXLN SL/SHY
91	6027.0-28.0	0.01	*	0.5	0.0	42.8	2.70	LM WH VFXLN SL/SHY CVF
	6028.0-32.0							LM SLTY -- NO ANALYSIS
	6032.0-35.0							CORE LOSS
	LEADVILLE FORMATION CORE # 6 6035-6061							
92	6035.0-36.0	0.01	*	0.5	0.0	72.2	2.71	LM WH VFXLN
93	6036.0-37.0	0.01	*	0.9	0.0	16.5	2.71	LM WH VFXLN
94	6037.0-38.0	<0.01	*	0.7	0.0	40.6	2.70	LM WH VFXLN
95	6038.0-39.0	<0.01	*	0.7	0.0	35.9	2.71	LM WH VFXLN
96	6039.0-40.0	<0.01	*	0.7	0.0	20.1	2.70	LM WH VFXLN
97	6040.0-41.0	<0.01	*	0.7	0.0	35.9	2.70	LM WH VFXLN
	6041.0-50.0							LM -- NO ANALYSIS
98	6050.0-51.0	0.10	*	0.5	0.0	22.8	2.71	LM WH VFXLN CVF **
	6051.0-54.0							LM -- NO ANALYSIS
99	6054.0-55.0	<0.01	*	0.5	0.0	21.6	2.72	LM WH VFXLN
	6055.0-57.0							LM -- NO ANALYSIS
	6057.0-61.0							CORE LOSS
	LEADVILLE FORMATION CORE # 7 6061-6112							
100	6061.0-62.0	<0.01	*	4.3	0.0	16.6	2.87	DOL BRN VFXLN
101	6062.0-63.0	0.03	0.03	5.4	1.6	23.0	2.87	DOL BRN VFXLN
102	6063.0-64.0	0.03	*	5.1	1.3	17.6	2.86	DOL BRN VFXLN
103	6064.0-65.0	0.02	*	8.9	1.0	13.3	2.86	DOL BRN VFXLN
104	6065.0-66.0	0.85	*	11.7	0.0	10.9	2.86	DOL BRN VFXLN
105	6066.0-67.0	1.16	*	8.2	0.0	6.5	2.86	DOL BRN VFXLN

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

S.E.R.H., INC.
NAVAJO # 4-32

DATE : 1-SEPT-1985
FORMATION : ORGAN ROCK

FILE NO : 3803-003402
ANALYSTS : DS:FV

CONVENTIONAL ANALYSTS-BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	90 DEG	POR. He	FLUID SATS. OIL	WTR	GRAIN DEN	DESCRIPTION	
106	6067.0-68.0	1.32	1.17	9.4	0.0	12.9	2.87	DOL BRN VFXLN	
107	6068.0-69.0	2.48	*	13.3	0.0	29.5	2.86	DOL BRN VFXLN	
108	6069.0-70.0	4.95	*	10.8	0.0	25.6	2.86	DOL BRN VFXLN	
109	6070.0-71.0	24.	*	13.7	0.0	34.9	2.86	DOL BRN VFXLN	
110	6071.0-72.0	25.	*	12.5	0.0	24.6	2.85	DOL BRN VFXLN	
111	6072.0-73.0	2.91	*	10.9	0.0	27.6	2.85	DOL BRN VFXLN OVF	
112	6073.0-74.0	3.44	*	13.1	4.8	28.9	2.83	DOL BRN VFXLN	**
113	6074.0-75.0	6.20	5.47	12.3	0.0	73.5	2.85	DOL BRN VFXLN	**
114	6075.0-76.0	0.40	0.29	9.4	0.0	46.4	2.84	DOL BRN VFXLN	**
115	6076.0-77.0	0.15	*	11.0	0.0	82.5	2.83	DOL BRN VFXLN	
116	6077.0-78.0	0.02	*	8.2	0.0	52.0	2.85	DOL BRN VFXLN	
117	6078.0-79.0	<0.01	*	1.8	0.0	81.8	2.81	DOL BRN VFXLN SL/CALC	
	6079.0-99.0							LM SLTY -- NO ANALYSIS	
118	6099.0-00.0	0.01	*	0.9	0.0	28.5	2.71	LM WH VFXLN OVF	
119	6100.0-01.0	<0.01	*	0.5	0.0	18.8	2.71	LM WH VFXLN	
120	6101.0-02.0	<0.01	*	0.6	0.0	22.9	2.71	LM WH VFXLN	
121	6102.0-03.0	0.12	*	0.5	0.0	28.9	2.71	LM WH VFXLN	**
122	6103.0-04.0	<0.01	*	0.5	0.0	19.7	2.71	LM WH VFXLN	
123	6104.0-05.0	0.29	*	0.9	0.0	18.7	2.71	LM WH VFXLN	**
	6105.0-12.0							LM SLTY -- NO ANALYSIS	

** DENOTES FRACTURE PERMEABILITY

* SAMPLE NOT SUITABLE FOR FULL DIAMETER ANALYSIS

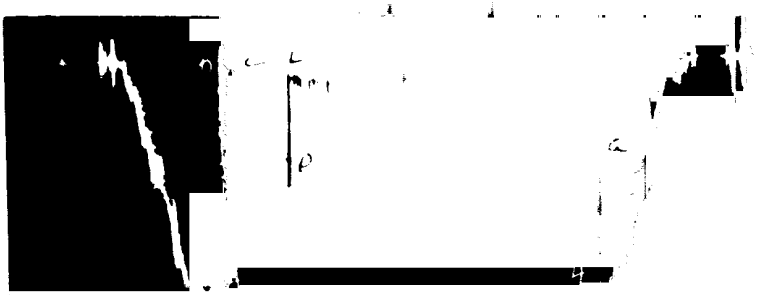
HALLIBURTON
SERVICES

TICKET NO. 23107800
05-SEP-85
FARMINGTON

FORMATION TESTING SERVICE REPORT

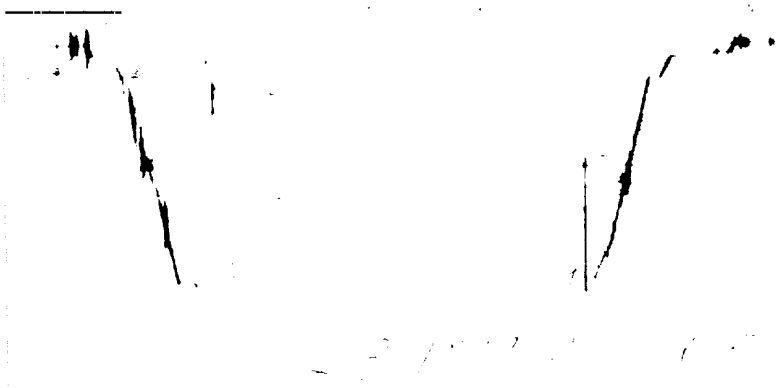
LEGAL LOCATION SEC. - TWP. - RNG.	FIELD AREA	COUNTY	STATE	LEASE OWNER/COMPANY NAME
32 27N 19W	BLUE MOUNTAIN	SAN JUAN	NEW MEXICO SM	S.E.R.H., INCORPORATED

LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL
NAVAJO	4-32	1	3784.0 - 3967.0



GAUGE NO: 1475 DEPTH: 3763.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1826	1834.0			
B	INITIAL FIRST FLOW	42	60.3	17.0	17.0	F
C	FINAL FIRST FLOW	84	89.2			
C	INITIAL FIRST CLOSED-IN	84	89.2	61.0	61.0	C
D	FINAL FIRST CLOSED-IN	776	822.8			
E	INITIAL SECOND FLOW	134	129.8	120.0	120.0	F
F	FINAL SECOND FLOW	210	244.9			
F	INITIAL SECOND CLOSED-IN	210	244.9	240.0	240.0	C
G	FINAL SECOND CLOSED-IN	839	854.2			
H	FINAL HYDROSTATIC	1784	1820.8			



GAUGE NO: 105 DEPTH: 3964.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1935	1948.7			
B	INITIAL FIRST FLOW	274	294.0	17.0	17.0	F
C	FINAL FIRST FLOW	463	456.0			
C	INITIAL FIRST CLOSED-IN	463	456.0	61.0	61.0	C
D	FINAL FIRST CLOSED-IN	1074	1061.3			
E	INITIAL SECOND FLOW	463	478.0	120.0	120.0	F
F	FINAL SECOND FLOW	442	424.9			
F	INITIAL SECOND CLOSED-IN	442	424.9	240.0	240.0	C
G	FINAL SECOND CLOSED-IN	969	958.4			
H	FINAL HYDROSTATIC	1914	1909.0			

EQUIPMENT & HOLE DATA

FORMATION TESTED: OREGON ROCK
NET PAY (ft):
GROSS TESTED FOOTAGE: 188.0
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 5926.0 G.R. 5939' K.B.
TOTAL DEPTH (ft): 3967.0
PACKER DEPTH(S) (ft): 3778, 3784
FINAL SURFACE CHOKE (in):
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.4
MUD VISCOSITY (sec): 38
ESTIMATED HOLE TEMP. (°F): 110
ACTUAL HOLE TEMP. (°F): 100 @ 3963.0 ft

TICKET NUMBER: 23107800

DATE: 8-30-85 TEST NO: 1

TYPE DST: OPEN HOLE

HALLIBURTON CAMP: FARMINGTON

TESTER: GENE ROBERTS

WITNESS: JOHN M. HELLER

DRILLING CONTRACTOR: YOUNG DRILLING #4

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY		CHLORIDES
PIT SAMPLE	2.470	@ 78 °F	3030 ppm
TOP SAMPLE	2.680	@ 81 °F	2727 ppm
MIDDLE SAMPLE	2.680	@ 81 °F	2727 ppm
BOTTOM SAMPLE	2.320	@ 80 °F	3333 ppm
SAMPLER	2.320	@ 80 °F	3333 ppm
		@ °F	ppm

SAMPLER DATA

Pstg AT SURFACE: 60.0
cu.ft. OF GAS:
cc OF OIL:
cc OF WATER:
cc OF MUD: 2240.0
TOTAL LIQUID cc: 2240.0

HYDROCARBON PROPERTIES

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

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

475 FEET OF VERY SLIGHT GAS CUT MUD

MEASURED FROM TESTER VALVE

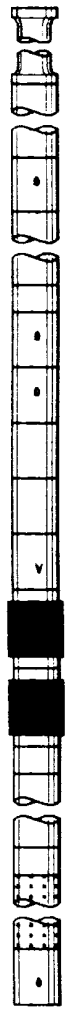
REMARKS:

CHARTS INDICATE PLUGGING DURING BOTH FLOW PERIODS.

TYPE & SIZE MEASURING DEVICE: _____ TICKET NO: 23107800

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
8-29-85					
2130					ON LOCATION
2145					PICKED UP AND MADE UP TOOLS
2316					TRIPPED IN HOLE WITH TOOLS
8-30-85					
0114	1/8"BH	2 OZ.			OPENED TOOL WITH WEAK BLOW,3"
					IN BUCKET
0116		2 OZ.			STEADY BLOW
					STEADY BLOW WITH 2 OUNCES
					SURFACE PRESSURE THROUGHOUT
					FLOW PERIOD.
0131		2 OZ.			CLOSED TOOL
0232		2 OZ.			OPENED TOOL WITH WEAK BLOW
0247		1 OZ.			PSI DROPPING
0302		.50 OZ			PSI DROPPING
0317		.50 OZ			STEADY
0332		.50 OZ			STEADY
0347		4 OZ			PSI INCREASED
0402		3 OZ			PSI DECREASING
0417		2 OZ			PSI DECREASING
0432		2 OZ			CLOSED TOOL
0832					OPENED BYPASS
0846					TRIPPED OUT OF HOLE WITH TOOLS
1210					OUT OF HOLE WITH TOOLS
1230					TOOLS LOADED
1340					JOB COMPLETED

TICKET NO. 23107800



		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE.....	4.500	3.826	3368.0	
3	DRILL COLLARS.....	6.250	2.250	352.0	
50	IMPACT REVERSING SUB.....	6.000	3.000	1.0	3719.0
3	DRILL COLLARS.....	6.250	2.250	29.0	
5	CROSSOVER.....	6.000	3.000	1.0	
13	DUAL CIP SAMPLER.....	5.030	0.870	7.0	
60	HYDROSPRING TESTER.....	5.000	0.750	5.0	3761.0
80	AP RUNNING CASE.....	5.000	2.250	4.0	3763.0
15	JAR.....	5.030	1.000	5.0	
16	VR SAFETY JOINT.....	5.000	1.000	3.0	
70	OPEN HOLE PACKER.....	6.750	1.530	6.0	3778.0
70	OPEN HOLE PACKER.....	6.750	1.530	6.0	3784.0
5	CROSSOVER.....	6.000	3.000	1.0	
3	DRILL COLLARS.....	6.250	2.250	145.0	
5	CROSSOVER.....	6.000	3.000	1.0	
20	FLUSH JOINT ANCHOR.....	5.750	3.000	30.0	
81	BLANKED-OFF RUNNING CASE.....	5.750		4.0	3964.0
	TOTAL DEPTH				3967.0

EQUIPMENT DATA