

05-123-10771

UNITED STATES  
DEPARTMENT OF  
GEOL



SUBMIT IN DUPLICATE\*

IOR (1)

(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

C-415-ACQ

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Government

9. WELL NO.

4-27

10. FIELD AND POOL, OR WILDCAT

Sooner

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

Sec. 27-T8N-R58W

12. COUNTY OR PARISH

Weld

13. STATE

Colorado

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  
Beren Corporation

3. ADDRESS OF OPERATOR  
2160 First of Denver Plaza, 633-17th Street, Denver, CO 80202

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

At surface  
660' FNL & 860' FEL (NENE) Section 27-T8N-R58W

At top prod. interval reported below  
Same  
At total depth  
Same

14. PERMIT NO. 82-1239 | DATE ISSUED 8/4/82

15. DATE SPUNDED 8/7/82 | 16. DATE T.D. REACHED 8/12/82 | 17. DATE COMPL. (Ready to prod.) Not yet completed | 18. ELEVATIONS (DF, REB, RT, GR, ETC.)\* 4748' KB | 19. ELEV. CASINGHEAD 4739'

20. TOTAL DEPTH, MD & TVD 6408' | 21. PLUG, BACK T.D., MD & TVD 6355' | 22. IF MULTIPLE COMPL., HOW MANY\* - | 23. INTERVALS DRILLED BY - | ROTARY TOOLS 0-TD | CABLE TOOLS None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 6292'-96' "D" Sand | 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN FDC-GR; DI-SFL | 27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	225' KB	12 1/4"	130 sx	-
4 1/2"	10.5#	6409' KB	7 7/8"	150 sx	-

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	6329'	none

31. PERFORATION RECORD (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
6292'-96' (3 jspf) casing gun	DEPTH INTERVAL (MD)   AMOUNT AND KIND OF MATERIAL USED
	6292'-96'   250 gals 15% NE-HCl

33. PRODUCTION

DATE FIRST PRODUCTION Not yet on prod. | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Swabbing | WELL STATUS (Producing or shut-in) Shut-in

DATE OF TEST 8/26/82 | HOURS TESTED 1 | CHOKER SIZE - | PROD'N. FOR TEST PERIOD - | OIL—BBL. 1.6 | GAS—MCF. Not Meas. | WATER—BBL. 2.4 | GAS-OIL RATIO Unknown

FLOW. TUBING PRESS. - | CASING PRESSURE - | CALCULATED 24-HOUR RATE - | OIL—BBL. 38.4 | GAS—MCF. Unknown | WATER—BBL. 57.6 | OIL GRAVITY-API (CORR.) Unknown

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold and used on lease | TEST WITNESSED BY Jim Huff, Sr.

35. LIST OF ATTACHMENTS

Geological Report

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

SIGNED J. Roy White | TITLE Western Operations Manager | DATE September 10, 1982

(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.
			See attached Geological Report

**38.**

**GEOLOGIC MARKERS**

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

# GOOLSBY BROTHERS and associates, Inc.

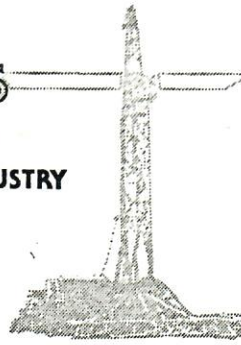
CONSULTING GEOLOGISTS TO THE ENERGY INDUSTRY

Oil & Gas-Coal

2345 So. Downing Street

Denver, Colorado 80210

(303) 733-5734



SEP 14 1982

COLO. OIL & GAS CONS. COMM.

## GEOLOGICAL WELLSITE REPORT

Beren Corporation  
Government No. 4-27  
NE $\frac{1}{4}$  NE $\frac{1}{4}$  Section 27, T8N - R58W  
Weld County, Colorado

*Well  
File*

DVR	
PIP	
PHM	✓
JAM	✓
LUB	
RES	
REV	

Eric P. Brownson  
Consulting Geologist

✓

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## WELL SUMMARY

The Beren Corporation, Government No. 4-27, located in the NE $\frac{1}{4}$  NE $\frac{1}{4}$ , Section 27, T8N, R58W of Weld County, Colorado was drilled to a total depth of 6408' (-1660), loggers depth on August 12, 1982.

The primary objective was the "D" Sandstone which was encountered at 6272' (-1524). Good shows were encountered, with moderate to bright yellow fluorescence, good to excellent streaming cuts, porosities ranging from 10-16%, and water saturation of 50-55%.

A conventional bottom hole Drill Stem Test was run in the "D" Sandstone after penetrating 15' of the sand. Drill Stem Test No. 1 (6276'-6289'; strap out corrected) recovered 248' total fluid after gas reached surface in 100 minutes. The fluid recovery broke down to 62' oil-highly gas cut, 186' of oil-highly gas cut and slightly mud cut. Good blows persisted during both flow periods.

An important factor in this well was that two separate "D" Sand benches were encountered whereas only one bench was encountered in the Government No. 2-27. Both benches appear to be productive, exhibiting similar log responses.

A secondary objective was the "J" Sandstone which was encountered at 6358' (1610). Poor shows were encountered and log analysis indicated the sand to be "wet".

A decision was made to run production casing to the "D" Sandstone on August 12, 1982.

WELL RESUME

P

OPERATOR: Beren Corporation

WELL: Government No. 4-27

LOCATION: NE $\frac{1}{4}$  NE $\frac{1}{4}$ , Section 27, T8N, R58W  
Weld County, Colorado

ELEVATION: 4739' GL' 4748' KB

SPUD DATE: August 7, 1982

T.D. DATE: August 12, 1982

HOLE SIZE: 12 $\frac{1}{4}$ " to 230'; 7 7/8" 230' to T.D.

THREAD TYPE: XO

CASING: 8 5/8" set at 225' KB

CONTRACTOR: Gear Drilling Rig No. 1

PUSHER: Glenn Hoppes

MUD COMPANY: Dresser Industries

ENGINEER: Bill Martin

GEOLOGICAL SUPERVISION: Eric P. Brownson

SAMPLES: 30' from 5400'-6250'; 5' from 6250'-T.D.

TOTAL DEPTH: 6410' (-1622)

BOTTOM HOLE FORMATION: Skull Creek

LOGGING PROGRAM: I-SFL (226'-6400')  
FDC-GR (5400'-6405')

ENGINEER: R. Leitham - Schlumberger Well Services

DRILL STEM TEST: No. 1; Star Hughes (Mile-Hi)

INTERVAL: "D" Sand - Conventional Bottom Hole  
6276'-6289' (Strap-out Depth)

WELL STATUS: Run production casing for production  
in the "D" Sand

FORMATION TOPS

<u>FORMATION</u>	<u>LOGS</u>	<u>SAMPLE</u>	<u>PROGNOSIS</u>
Niobrara	5532' (- 784)	--	---
Fort Hays	5766' (-1018)	--	---
Carlile	5846' (-1098)	--	---
"X" Bentonite	6167' (-1419)	--	---
"D" Sand	6272' (-1524)	6275' (-1527)	6278' (-1530)
"J" Sand	6358' (-1610)	6359' (-1611)	6362' (-1614)
T.D.	6408' (-1660)	6410' (-1662)	---

BIT RECORD

<u>NO.</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>DEPTH OUT</u>	<u>FTG</u>	<u>HRS.</u>
1	7 7/8"	STC	DTJ	3415'	3185'	18 3/4
2	7 7/8"	STC	DTJ	4950'	1535'	13 1/2
3	7 7/8"	HTC	J-2	6290'	1340'	32 1/4
4	7 7/8"	HTC	J-22	6410'	120'	18

DRILLING PARAMETERS

<u>INTERVAL</u>	<u>WOB</u>	<u>RPM</u>	<u>PP</u>
-6274'	30K	100/110	800
6274'-T.D.	30/35K	55	700/800

MUD RECORD

<u>DATE</u>	<u>DEPTH</u>	<u>WT</u>	<u>VIS</u>	<u>PH</u>	<u>WL</u>	<u>SALT</u>	<u>CHLOR</u>	<u>SOL</u>
8/ 9/82	4320'	"Drilling with water"						
8/10/82	5808'	9.0	32	8.0	6.8	--	400	5 %
8/11/82	6279'	9.6	80	8.0	5.4	--	400	10 %
8/12/82	6385'	9.6	72	8.0	5.8	--	400	12 %

DRILL STEM TEST

Drill Stem Test No. 1: Mile-Hi Testers (Star-Hughes)

TESTER: Dave Pickering

INTERVAL: 6276'-6289' (corrected to strap)  
"D" Sand

TYPE OF TEST: Conventional Bottom Hole

Flow #1: 15 minutes  
Shut-in #1: 60 minutes  
Flow #2: 120 minutes  
Shut-in #2: 60 minutes

SURFACE BLOW & REMARKS: Flow #1: Tool opened with ¼" blow and increased to bottom of bucket in 9 minutes

Flow #2: Tool opened with blow to bottom of bucket immediately -gas to surface in 100 minutes measuring 2 P.S.I. on 3/8" choke

Recovery: 6028' of gas above fluid, total fluid recovered: 248' consisting of: 62' oil w/ good gas cut  
186' oil w/ good gas cut and slight mud cut

SAMPLER RECOVERY: Total volume of sampler: 2100 cc  
Total volume of sample: 1400 cc  
consisting of: 700 cc oil  
700 cc mud

Gas: 01 cuft  
Pressure in sampler: 50 lbs.

RECORDER PRESSURES:

<u>Recorder #1</u>	<u>Recorder #2</u>
IH - 3377	IH - 3376
FH - 3233	FH - 3233
IF-1 40	IF-1 52
FF-1 40	FF-1 52
IF-2 53	IF-2 65
FF-2 93	FF-2 117
SIP-1 797	SIP-1 806
SIP-2 797	SIP-2 806

OIL ANALYSIS: 33.6 A.P.I. @ 60°

MUD PIT Rw: 3@ 94° - 1400 ppm (cl)