

OIL AND GAS CONSERVATION COMMISSION
DEPARTMENT OF NATURAL RESOURCES
OF THE STATE OF COLORADO



File in triplicate for Patented
File in quadruplicate for State Lands.

00362448

RECEIVED 10
FEB 23 1976

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NO. COMM.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Willis

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

NW SE 18-3S-50W

12. COUNTY 13. STATE

Washington Colo.

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

R.E. Hibbert Oil Properties 39850

3. ADDRESS OF OPERATOR

2300 Lincoln Center Bldg., Denver 80203

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

At surface 1980' FSL & 1980' FEL Sec. 18

At top prod. interval reported below

At total depth

14. PERMIT NO. DATE ISSUED

74 396 6/6/74

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

8/24/74 8/27/74 8/27/74 (Plug & Abd.) 4579' GR

20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY 23. INTERVALS DRILLED BY 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) 25. WAS DIRECTIONAL SURVEY MADE

4013' → X

26. TYPE ELECTRIC AND OTHER LOGS RUN

IES, Gamma Ray-Density

27. WAS WELL CORED YES NO (Submit analysis)
DRILL STEM TEST YES NO (See reverse side)

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#	274' KB	12-1/4"	230 SX.	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

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

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

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

35. LIST OF ATTACHMENTS

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

SIGNED [Signature] TITLE AGENT DATE 2/20/76

See Spaces for Additional Data on Reverse Side

DVR
FIP
HUM
HD
CCN
COM

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.

SEE ATTACHED

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			SEE ATTACHED

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
BEST CORRELATION OR RECONSTRUCTION BELOW 1440 TOC		

10



00382450

DRILL STEM TESTS

DST #1 - 3952' - 3966'; open 90 minutes, shut in 60 minutes.
Tool opened with weak blow, 1/2" below water; increased to 1" below water; remained steady for one hour, then slowly decreased to 1/2" at end of test.

Recovery

109' muddy water

Pressures

Initial hydrostatic 2288#

Final hydrostatic 2258#

Initial flow 15#

Final flow 45#

Final shut in 757#

Pressure below bottom packer bled to 822#

Bottom hole temperature 125°

Test successful

CHRONOLOGICAL HISTORY

- Aug. 24, 1974 - Moved in, rigged up, spudded, set surface casing. Plug was down at 5:30 PM; drilled out at 9:30 PM.
- Aug. 25 - Drilling at 2015; bit #1
- Aug. 26 - Drilling at 3749'; bit #2. Drilled to TD of 4013'.
- Aug. 27 - Ran IFS and Gamma Ray-Density logs; ran DST #1; plugged with 15 sacks cement in bottom of surface casing and 10 sacks in top, as per telephone instructions from D. V. Rogers, Colo. Oil & Gas Conservation Commission.

FORMATION TOPS

<u>Formation</u>	<u>Log Tops</u>
Niobrara	3017'
Ft. Hayes	3482'
Carlile	3541'
Greenhorn	3666'
Bentonite marker	3864'
D Sand	3950'
J Sand	4006'
Total Depth	4013' driller; 4024' Schlumberger

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COLO. OIL & GAS CONS. COMM.

GENERAL INFORMATION

Operator: R. E. Hibbert
Farm: Alden Willis
Well Number: 1-A
Location: 1700' FEL; 1700' FSL, NW SE Section 18 - T3S - R50W
County: Washington
State: Colorado
Elevation: 4568' G.L.; 4579' KB, surveyed by Billy Holloway
Surface Casing: Ran 263' of 8 5/8" surface casing, set at 274 KB
with 230 sacks cement, 2% CaCl. Plug down at
5:30 PM, 8-24-74.
Cores: None
Drill Stem Tests: One D Sand test.
Logs: Ran Schlumberger Induction-Electrical log from 4123'
to 274'; Gamma Ray-Density log from 4123' to 3650'.
Status: Plugged and abandoned.
Geologist: J. W. Nylund
Drilling Contractor: Exeter Drilling Co., rig #13; Bill Brown, toolpusher.

74-396

BIT RECORD

<u>Run No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Depth Out</u>	<u>Footage</u>	<u>Hours</u>
1	7 7/8"	Sec.	S-3	3543'	3281'	20 $\frac{1}{4}$
2	7 7/8"	Smith	DT	4113'	570'	13 $\frac{1}{2}$

DEVIATION SURVEYS

<u>Depth</u>	<u>Degrees from Vertical</u>
1019'	1/2°
2028'	1/2°
3031'	1/2°
3543'	1/2°
4113'	1/4°

S A M P L E D E S C R I P T I O N

3900 - 50 - Shaly, dark gray, soft, fissile, silty in part, very bentonitic; several pieces of bentonite; occasional pieces of pyrite.

Top of D Sand

3950 - 55 Sandstone, tan, fine grained, low to good porosity and permeability (75% has good porosity and permeability), argillaceous in part, medium soft, friable, fair sorting, sub-angular grains, traces of shale particles, good solid oil stain, bright yellow fluorescence.

3955 - 60 Sandstone, as above, and sandstone, gray, very fine grained, tight, very silty, hard, poorly sorted, thin shale laminations, no show.

3960 - 65 Five pieces of sandstone with oil stain as described at 3950-55; balance of sample is sandstone, white to gray, fine to very fine grained, tight, very argillaceous, pyritic, silty, poorly sorted, hard, no show.

3965 - 80 Sandstone, cream, very fine grained, very low porosity and permeability to tight, argillaceous, few thin shale laminations, medium hard, slightly friable, well sorted, sub-rounded grains, no show.

3980 - 85 Sandstone, as above, but becoming more argillaceous and shaly.

3985 - 95 Sandstone, white, fine grained, low to fair porosity and permeability, argillaceous, shaly, medium hard, poorly sorted, sub-angular to sub-rounded grains, no show.

3995 -4005 Sandstone, as above, with few pieces of clean, water wet sand, no show.

4005 - 15 Shale, black, soft, silty.

Top of J Sand

4015 - 20 Sandstone, brown, fine grained, very low to fair porosity and permeability, clay-filled in part, soft, friable, fair sorting, sub-angular grains, numerous shale particles in the clay-filled sand, the porous sand has good solid oil stain and bright yellow fluorescence; the clay-filled sand has patchy stain and fluorescence.

- 4020 - 25 Sandstone, as above, except 90% of the sand has good porosity with good, heavy oil stain and bright yellow fluorescence; 5% is clay-filled with patchy stain; 5% is porous with light stain.
- 4025 - 35 Sandstone, gray to brown, fine grained, low to fair porosity and permeability, argillaceous in part, medium hard, generally well cemented, fair sorting, shows range from solid stain (10%), to patchy stain (50%) to no stain (40%). The sand without stain is slightly quartzitic and harder than the remainder of sample.
- 4035 - 40 Sandstone, as above, except stain is becoming generally patchy with a high percentage of sand having no show.
- 4040 - 45 Sandstone, white, fine grained, low to fair porosity and permeability, very argillaceous in part, silty in part, glauconitic, medium hard, fair sorting, several pieces very shaly, very patchy stain, dull fluorescence.
- 4045 - 50 Sandstone, white, fine grained, tight, clay-filled, soft, friable, very weak clay cement, abundant bentonite, no show; also interbedded shale and siltstone.
- 4050 - 60 Sandstone, as above, and shale, gray to black, silty, pyritic.
- 4060 - 75 Sandstone, white to tan, fine grained, low to fair porosity and permeability, argillaceous, medium soft, slightly friable, well sorted, no show.
- 4075 - 80 Sandstone, white, fine grained, tight, heavily clay-filled, abundant bentonite, very soft, "mushy", no show.
- 4080 - 85 Sandstone, as above, but developing low to fair porosity and permeability in part, no show.
- 4085 - 90 Sandstone, white, fine grained, low to fair porosity and permeability, argillaceous, pyritic, medium soft, sub-rounded grains, poor to fair sorting, several pieces have good oil stain and bright yellow fluorescence; balance no show.
- 4090 - 95 Sandstone, white, fine to very fine grained, fair porosity and permeability, heavily clay-filled in part, abundant bentonite, shaly, poor sorting, no show.
- 4095 - 4100 Sandstone, as above, but becoming very shaly with low porosity and permeability, no show.

- 4100 - 05 Sandstone, gray, fine grained, tight, clay-filled, shaly,
pyritic, hard, poorly sorted, no show.
- 4105 - 10 Sandstone, as above, grading into siltstone in part.
- 4110 - Circulating samples - Same as above.

Sample quality - good