



RECEIVED

SEP 21 1973

OF THE STATE OF COLORADO

File in triplicate for Patented and Federal lands  
File in quadruplicate for State lands.

OIL & GAS CONS.

5. LEASE DESIGNATION AND SERIAL NO.  
COMM.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Geesen

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat DISC

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

Sec. 21-3S-52W

12. COUNTY

Washington

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

Bobcat Oil Company

3. ADDRESS OF OPERATOR

400 Denver Club Building, Denver, Colorado 80202

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

At surface 660' FNL & 1980' FEL, Sec. 21 (C NW NE)

At top prod. interval reported below

Same

At total depth Same

14. PERMIT NO. 73-497

DATE ISSUED 7/13/73

15. DATE SPUDDED 7-17-73

16. DATE T.D. REACHED 7-19-73

17. DATE COMPL. (Ready to prod. or Plug & Abd.) 8-16-73

18. ELEVATIONS (DF, RKB, RT, GR, ETC.) 4820' GL 4827' KB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 4480' KB

21. PLUG, BACK T.D., MD & TVD 4438' KB

22. IF MULTIPLE COMPL., HOW MANY NA

23. INTERVALS DRILLED BY 0 - TD

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)

"J" sand 4848' - 4850' KB

25. WAS DIRECTIONAL SURVEY MADE  
Totco Deviation Surveys

26. TYPE ELECTRIC AND OTHER LOGS RUN

IES & FDC/GR/Caliper

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" OD	24#	125' KB	12-1/4"	95 sacks	None
5-1/2" OD	14#	4479' KB	7-1/8"	150 sacks	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)
		NONE		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8" OD	4298' KB	None

31. PERFORATION RECORD (Interval, size and number)

4348-4349' KB 16-4 Gm Jets  
4349-4350' KB 10-4 Gm Jets

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	NONE

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
8-16-73	Pumping	Producing					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-4-73	24	-	→	21	TSTM	119	-
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
-	-	→	21	TSTM	119	24°	

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

Used for lease fuel

TEST WITNESSED BY

E. W. Thomas

35. LIST OF ATTACHMENTS

Geological report, DST reports & E. logs

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

SIGNED

*C. B. Haigron* TITLE *Treasurer*

DATE 9-20/73





FLOYD H. MILLER  
PETROLEUM GEOLOGIST  
MIDLAND SAVINGS BUILDING  
DENVER, COLORADO 80202

OFFICE (303) 573-0288  
RES. (303) 755-3103

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COLO. OIL & GAS CONS. COMM.

G E O L O G I C A L R E P O R T

BOBCAT OIL CO. AND SULPETRO INTERNATIONAL LTD.

NO. 1 GEESEN

NW NE Section 21, Township  
3 South, Range 52 West  
Washington County, Colorado



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NO. 1 GEESEN

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R E S U M E


OPERATOR: Bobcat Oil Company and Sulpetro International Ltd.  
WELL: No. 1 Geesen  
LOCATION: NW NE Section 21, Township 3 South, Range 52 West  
FIELD: Wildcat  
COUNTY: Washington  
STATE: Colorado  
ELEVATION: 4820 G.L. 4827 K.B.  
CASING: Set 114 feet of 8-5/8" casing at 124 feet with 95 sacks of regular cement. 3% CaCl.  
HOLE SIZE: 7-7/8"  
TOTAL DEPTH: 4475 feet, driller - 4480 feet, electric log  
T.D. FORMATION: J-Sand  
MUD: Chemical Gel  
SPUD: July 17, 1973  
COMPLETED: July 19, 1973  
CORES: None  
DRILL STEM TESTS: DST No1 - 4349-4354 Virg's Testers. J-Sand  
DST No2 - 4404-4410 Virg's Testers. J-Sand  
DST No3 - 4348-4351 Virg's Testers. J-Sand  
LOGS: Schlumberger Induction-Electrical Survey and Formation Density Curve with Gamma Ray/Caliper  
CONTRACTOR: Exeter Drilling Co., Rig # 5, Bob Fisher, Pusher  
PRODUCTION: J-Sand oil producer



D A I L Y D R I L L I N G C H R O N O L O G Y

8:00 AM - 8:00 AM

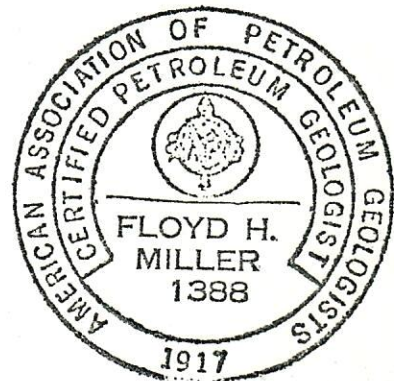
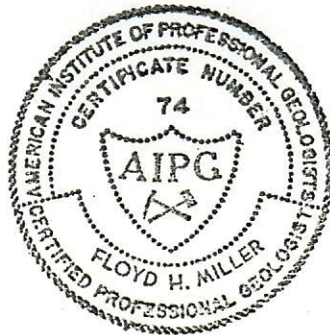
<u>DATE</u>	<u>DEPTH</u>		<u>FEET MADE</u>	<u>HOURS DRILLED</u>
7-17	128	Set surface casing.		
7-18	2322	Commenced drilling below surface casing at 5:30 PM, 7-17.	2194	13
7-19	4399	Tripping for Bit #3. Trip at 3086 for Bit #2.	2077	17-1/2
7-20	4475	Drilled to total depth of 4475. Ran Schlumberger logs. Commenced DST #1.	76	3-3/4
7-21	4475	Running casing for completion. Ran DST #1, #2, and #3.		

  
DISCUSSION

The tops of the D and J-Sands were found at a satisfactory structural datum. The J-Sand was encountered at 4347 (+480) or 11 feet high to the west offset which had shows of oil in the top 3 feet of the J-Sand. Sample quality was poor; however, electric log evaluation indicated an oil pay zone in the top of the J-Sand from 4347 to 4355 feet and this zone was drill stem tested twice. The recovery of oil as described in the drill stem test reports on page 5 of this report was sufficient to warrant a completion attempt. It is believed that a portion of the water that was recovered is filtrate water - the drilling fluid was of very poor quality while the upper J-Sand pay was being drilled. The excellent porosity and permeability of this zone has resulted in excellent production histories in nearby producing wells indicating potential recoveries of up to 500 barrels per acre/foot.

The No. 1 Geesen may ultimately be a poor to excellent oilwell; however, no matter how it turns out, it has definitely indicated that additional drilling should be undertaken. A million barrels of oil easily could be present in wells that are offsets to the subject well.

*Floyd H. Miller*



FORMATION TOPS

<u>FORMATION</u>	<u>LOG DEPTH</u>	<u>DATUM</u>
Niobrara	3395	+1432
Carlile	3903	+ 924
Greenhorn	4000	+ 827
Bentonite	4201	+ 626
D-Sand	4290	+ 537
J-Sand	4347	+ 480
Total Depth	4480	+ 347

BIT RECORD

<u>NO.</u>	<u>MAKE</u>	<u>TYPE</u>	<u>DEPTH OUT</u>	<u>FOOTAGE</u>	<u>HOURS</u>	<u>FT/HR</u>
1	Smith	DT-J	3086	2962	19	156
2	Smith	DT	4398	1313	12-1/4	107
3	Hughes	CIC	4475	78	4	20

LOG ANALYSIS

Schlumberger - Joe Dille, Engineer

<u>DEPTH</u>	<u>POROSITY%</u>	<u>WATER%</u>
4303-08	12	100
4317-30	19	90
4350-56	26	20
4356-66	27	55
4370-80	24	60
4404-08	20	60

DEVIATION SURVEYS

<u>DEPTH</u>	<u>DEVIATION °</u>
1211	1/4
3086	1-1/2
4395	1/4

D R I L L S T E M T E S T S

DST No. 1 4349-4354

Open 5 minutes, shut in 60 minutes, open 90 minutes, shut in 90 minutes. Good blow decreasing after 40 minutes to very weak blow at end of test.

RECOVERED: 1120' fluid. 140' heavily oil cut mud, 40-50% oil. 980' slightly oil cut water.

PRESSURES:

IH	2360
FH	2348
IF	106
FF	129
IF	235
FF	541
ISIP	659
FSIP	659

DST No. 2 4404-4410

Open 5 minutes, shut in 30 minutes, open 60 minutes, shut in 60 minutes. Good blow decreased to dead in 42 minutes.

RECOVERED: 1550' water. Resistivity of two samples averaged 3.6 ohms at 80 degree temperature.

PRESSURES:

IH	2431
FH	2407
IF	294
FF	400
IF	482
FF	706
ISIP	741
FSIP	741

DST No. 3 4348-4351

Open 5 minutes, shut in 60 minutes, open 2 hours, shut in 2 hours. Weak blow remaining throughout test. No gas to surface.

RECOVERED: 680' fluid, 200' clean oil (3.53 barrels). 185' mud cut oil (estimate 60% oil). 60' mud cut water. 235' water. Resistivity 3.8 ohms at 82 degree temperature.

PRESSURES:

IH	2383
FH	2371
IF	82
FF	94
IF	106
FF	294
ISIP	682
FSIP	682

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

<u>DEPTH</u>	<u>DESCRIPTION</u>
4200-4300	Shale, gray to black, white bentonite, tan limestone, speckled shale. Poor samples. Finely ground.
4300-4310	As above plus trace of sandstone, gray-white, fine grained, poor permeability and porosity. No show.
4310-4330	As above with slight increase in amount of sandstone.
4330-4360	Shale, gray to black. Poor samples.
4360-4390	Shale, gray to black. Traces of sandstone as above with no show, bentonite, tan limestone, etc. Much recirculated material.
4390-4425	As above, samples very poor quality. Found hole in drillpipe when trip was made at 4426 feet.
4425-4475	Samples gradually improved but never became good. Could find only traces of sandstone with no shows although electric logs indicate that the well was drilling mostly sandstone from 4347 feet to total depth.