

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

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

CONTINENTAL OIL CO.

3. ADDRESS OF OPERATOR

P.O. BOX 460 Hobbs, NM 88240

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

At surface

1980' FSL & 1980' FEL

At proposed prod. zone

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

15. DISTANCE FROM PROPOSED*

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.)

3532' DF

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH

NO CHANGE

5. LEASE DESIGNATION AND SERIAL NO.

NM 2512

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

NMFU

8. FARM OR LEASE NAME

HAWK B-1

9. WELL NO.

14

10. FIELD AND POOL, OR WILDCAT

~~DRINK~~ BLINEBRY OIL & GAS11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

SEC. 8 T. 21S. R. 37E

12. COUNTY OR PARISH

LEA

NM

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

C-T

22. APPROX. DATE WORK WILL START*

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APR 2 1979

U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

It is proposed to plugback the Hawk B-1 No. 14 and recomplete as a BLINEBRY Oil & GAS oil well.

The Blinebry will be down hole commingled with the Drinkard when the combined producing rates are within regulatory limits for DHC.

SEE ATTACHED FOR procedure, etc.

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.

24.

SIGNED

TITLE

Administrative Supervisor

DATE

3-30-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

USGS 6

NMFU 4

FILE

*See Instructions On Reverse Side

APPROVED

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ACTING DISTRICT ENGINEER

250
OIL CONSERVATION

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OIL CONSERVATION COMM.
BUREAU, D. C.

HAWK B-1 NO. 14

WELL DATA

TD - 6836' PBDT - 4290' Elevation - 3532' DF KBM - 10' AGL

Casing Record: 8 5/8" 24# J-55 Surf. Csg. @ 1322' w/650 sx.
5 1/2" 15.5# J-55 Prod. Csg. @ 6836' w/625 sx. TOC @ 2900'.

Perforations: San Andres - 4151, 4156, 4170, 4176, 4196 (1 JSPF).

Plugs: CIBP @ 4300' w/1 sx cement on top.

RECOMPLETION PROCEDURE

1. Rig up. Kill well if necessary w/fresh water treated w/2% KCI and 1 gal./M gal. adomall.
2. G.I.H. w/3 1/2" tbg. & cement retainer. Set ret. @ 4100'. Establish injectivity rate. Squeeze San Andres perms w/100 sx API class "C" cmt. w/2% CaCl₂ w/0.5% Halad-9. Spot 2 sx cmt. on top of retainer. POOH w/tbg. WOC 12 hrs.
3. G.I.H. w/cement bit, drill collars, & workstring. Drill out cement plug and cement retainer @ 4100'. Pressure test squeeze to 500 psi. Drill out CIBP @ 4300'. Clean out well to +6750'. POOH.
4. G.I.H. w/CIBP on 3 1/2" tbg. Set CIBP @ +6200'. Pressure test csg. to 1000 psi. Spot 1 sack cement on CIBP. Spot 220 gal. 15% NE-HCI acid from 5920'-5700'. POOH w/tbg.
5. G.I.H. w/4" hollow carrier decentralized select fire casing gun, 0° phasing, 1 JSPF (EHD 0.4"). Perforate Blinbry Formation @ 5666', 5680', 5691', 5700', 5713', 5729', 5736', 5742', 5749', 5754', 5766', 5795', 5804', 5810', 5826', 5834', 5845', 5856', 5871', 5876', (20 holes). Perforate from top to bottom of interval. (Casing collars located @ 5717'+, 5750'+, 5783', 5848', 5882', 5915').
6. R.I.H. w/retrievable fullbore pkr. on 3 1/2" tbg. Set pkr. @ +5600'. Break-down Blinbry perforations @ 5666'-5876' w/4000 gal. *(95.2 bbl.) 15% NE-HCI acid @ 8 BPM utilizing 40 - 7/8" RCN ballsealers. Release two ballsealers every 200 gallons (4.8 bbls.). Run pkr. down thru perms to free ballsealers. Set pkr. @ +5600'.

*58 gal./ft. NEP
200 gal./perf.
NEP 69 ft.
7. Rig up fracturing service. *Fracture treat Blinbry perforations @ 30 BPM thru 3 1/2" tbg. w/the following treatment. (EST. WHP = 5600 psi).
Casing burst pressure = 4,000 psi.

- A) 8000 gal. (190 bbl.) gelled fluid pad.
- B) 7000 gal. (167 bbl.) frac fluid w/1/2 PPG. "20-40" sand.
- C) 8000 gal. (190 bbl.) frac fluid w/1 PPG. "20-40" sand.
- D) 10,000 gal. (238 bbl.) frac fluid w/1 1/2 PPG. "20-40" sand.
- E) 12,000 gal. (286 bbl.) frac fluid w/2 PPG. "20-40" sand.
- F) 15,000 gal. (357 bbl.) frac fluid w/2 1/2 PPG. "20-40" sand.

Note: Attempt 3 PPG. if pressure permits.

G) Flush to 100' above top perf. Do not overflush.

Total gelled fluid volume - 60,000 gal. (1429 bbls.)

Total frac sand weight - 88,000#.

8. Record ISIP and @ 5 min. intervals for 15 min. SION. Swab well in.

9. POOH w/ret. pkr. & tbg. Run 2 3/8" tbg. to +5900' w/S.N. @ +5870'. Run rod string & pump. Place well on production test. Report results to Division Office.

*Frac Fluid Composition --

- 1) 2% KCI water base fluid.
- 2) 30#/M gal. low residue guar gum.
- 3) 25#/M gal. adomite aqua low fluid loss additive.
- 4) 10#/M gal. Ph control.
- 5) 1 gal./M gal. adomall.
- 6) 3#/M gal. breaker.
- 7) 2 gal./M gal. fluorocarbon surfactant.
- 8) 5#/M gal. X-Linker.

Terry Q. Brown
Associate Engineer

3-2-79
Date

Brent D. Meyer
Supervising Production Engineer

3-2-79
Date

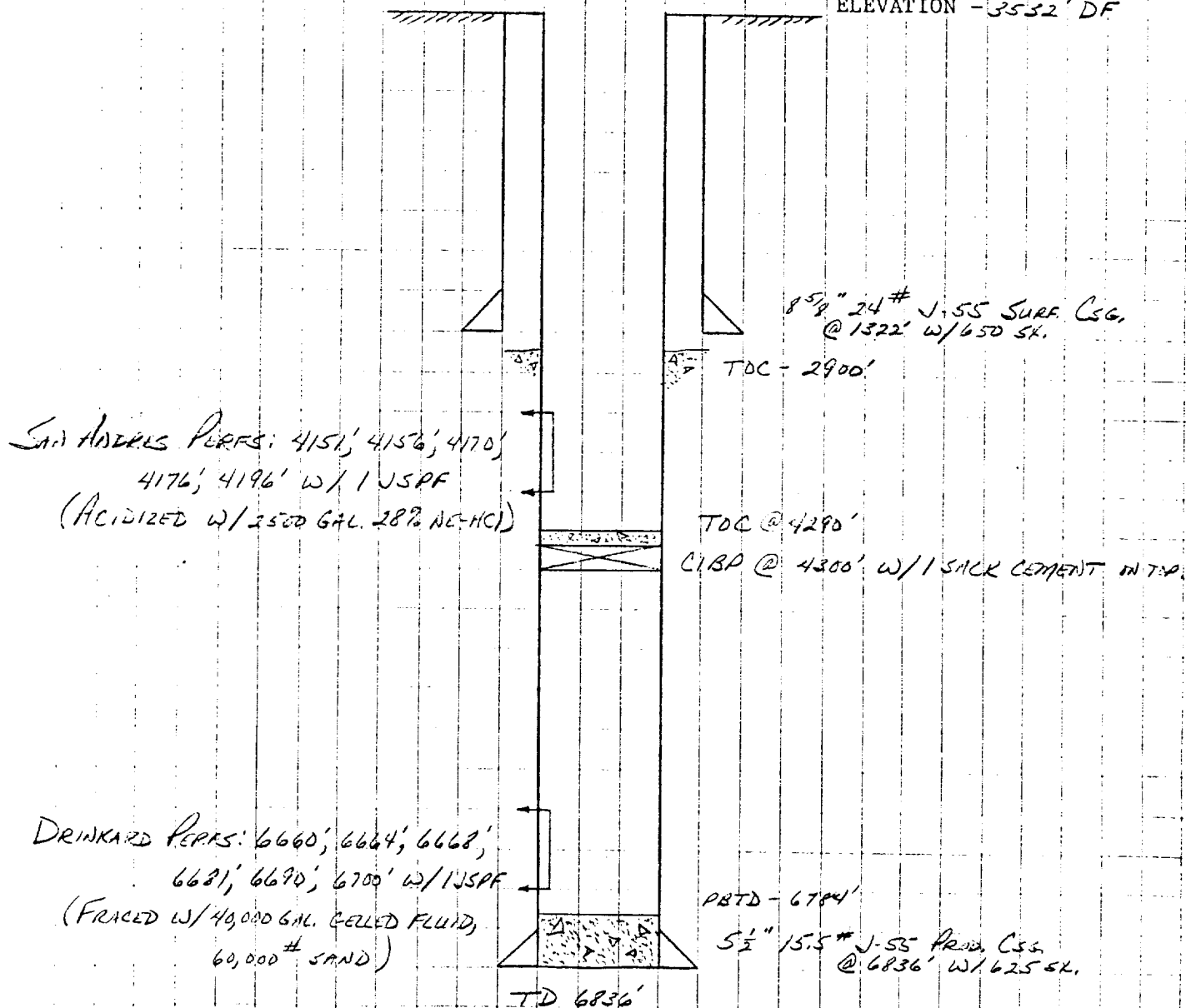
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OIL CONSERVATION COMAL.
RUCSS. FL. M.

T. SALT -
B. SALT -

Sec 8, T-21S, R-37E
198' FSL & 190' FEL
ELEVATION - 3552' DF



INITIAL DRINKARD PRODUCTION: PMPS 50 BOPD, 12 BWD, 17 MCFGD

MADE BY TOB
CHECKED BY
DATE
PAGE

CONTINENTAL OIL COMPANY
CALCULATION SHEET

TITLE HAWK R-1 #14

JOB No. COMPLETED - 1/6/69

FIELD
STATE

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OIL CONSERVATION COMM.
HOUSTON, TEXAS