

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.

RECEIVED

5. LEASE DESIGNATION AND SERIAL NO.

LC-062749C

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Nov 28 11 05 AM '907. UNIT AGREEMENT NAME
CARLE AREA LEASE

8. FARM OR LEASE NAME

Conoco "D" Federal

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

North Mason (Delaware)

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

Section 18, T-26-S,

R-32-E, NMPM

12. COUNTY OR PARISH

Lea

13. STATE

New Mexico

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

Highland Production Company

3. ADDRESS OF OPERATOR

810 N. Dixie Blvd., Suite 202, Odessa, Texas 79761

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

At surface 990' FEL and 990' FSL

At top prod. interval reported below 990' FEL and 990' FSL

At total depth 990' FEL and 990' FSL

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED 9/1/90 16. DATE T.D. REACHED 9/7/90 17. DATE COMPL. (Ready to prod.) 11/2/90 18. ELEVATIONS (DP, RKB, RT, GR, ETC.)* 3180 GR 19. ELEV. CASINGHEAD 3180

20. TOTAL DEPTH, MD & TVD 4365 TD 21. PLUG, BACK T.D., MD & TVD - 22. IF MULTIPLE COMPL., HOW MANY* - 23. INTERVALS DRILLED BY 4338 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4332 - 4365 Open Hole - DELAWARE 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

Gamma Ray Neutron Log

27. WAS WELL CORED

No

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

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24.0 #	1147'	12 1/4"	600 Sacks	Circulate to Sur
4 1/2"	11.6 #	4332	7 7/8"	600 Sacks	Circulate to 500 feet of surface.

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	4214'	-

31. PERFORATION RECORD (Interval, size and number)

4332' to 4365' Open Hole

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4332 - 4365'	1000 Gals Oil W/Gel Agent
	2000# 12/20 Brady Sand
	3640# 20/40 Brady Sand

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
11/2/90		Pumping		2X1½X16 Steel		Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD. N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11/20/90	24	-	→	80	10	22	125
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
-	39#	→	80	10	22	39.9	

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

Sold

TEST WITNESSED BY

Marvin L. Smith

35. LIST OF ATTACHMENTS

Deviation Survey and Gamma Ray Neutron Log

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

SIGNED

Marvin L. Smith

TITLE

President

DATE 11/26/90

*(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				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Delaware Sand	4324	4365	95% Sandstone, light gray to gray slightly shaly, slightly calcareous, slightly laminated with black shale, silty, 80% good to fair oil fluorescence, SL cut when crushed. 5% shale, black silty, bailed slight rainbow show of oil with odor of sweet gas.	Top Rustler FM Top Salado Salt Top Castile FM Top Uppermost Salt in Castile Formation Top "M" Salt in Castile FM Base of "M" Salt Top Lowermost Salt Base Lowermost Salt Top Lamar Shale "Delaware Lime" Top Delaware Sandstone	990 1320 2340 2916 3732 3832 3924 4080 4298 4324	