

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPL. E*

(See other in-
structions on
reverse side)Form approved,
Budget Bureau No. 42-R355.5.

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. ☐
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 2282' FNL and 2287' FWL At top prod. interval reported below 2282' FNL and 2287' FWL At total depth 2282' FNL and 2287' FWL						
14. PERMIT NO.			DATE ISSUED 9-19-91			
15. DATE SPUNDED 4-22-91			16. DATE T.D. REACHED 5-9-91			
17. DATE COMPL. (Ready to prod.) 5-17-91			18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3192 GR			
19. ELEV. CASINGHEAD 3194'			20. TOTAL DEPTH, MD & TVD 4373			
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)* Open hole 4338 - 4373			
25. WAS DIRECTIONAL SURVEY MADE Yes			26. TYPE ELECTRIC AND OTHER LOGS RUN Gamma Ray Neutron			
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. #	1135'	12 1/4"	600 Sacks HL and Prem+	Circulate to sur
5 1/2"	15.5 #	4338'	7 7/8"	935 Sacks HL and Prem+	Circulate to 815

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"	4115.5'	4119'

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
Open Hole 4338 - 4373		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
		4338-4373	7980 gallons lease crude (gelled)
			8000# Sand 20/40 and 12/20.

33. PRODUCTION							
DATE FIRST PRODUCTION 5/17/91		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping 16' X 2 1/2' X 2 downhold pump				WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 5-24-91	HOURS TESTED 24	CHOKE SIZE -	PROD'N. FOR TEST PERIOD 40	OIL—BBL. 40	GAS—MCF. 40	WATER—BBL. 60	GAS-OIL RATIO 1000
FLOW. TUBING PRESS. 0	CASING PRESSURE 20#	CALCULATED 24-HOUR RATE 40	OIL—BBL. 40	GAS—MCF. 40	WATER—BBL. 60	OIL GRAVITY-API (CORR.) 40.1	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) sold						TEST WITNESSED BY Marvin L. Smith	

35. LIST OF ATTACHMENTS Directional survey, 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 May 29, 1991	

*(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.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Delaware Sand	4373	4413	95% Sandstone, light gray to gray slightly shaly, slightly calcareous, slightly laminated with black shale, silty, 80% good to fair oil fluorecence, SL cut when crushed. 5% shale, black silty, bailed slight rain-bow show of oil with odor of sweet gas.	Top Rustler FM	990	
				Top Salado Salt	1324	
				Top Castile FM	2348	
				Top Uppermost Salt in Castile Formation	2926	
				Top "M" Salt in Castile FM	3740	
				Base of "M" Salt	3842	
				Top Lowermost Salt	3930	
				Base Lowermost Salt	4093	
				Top Lamar Shale	4310	
				"Delaware Lime" Top Delaware Sandstone	4338	

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