

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved,
Budget Bureau No. 42-R3511

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 ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐

2. NAME OF OPERATOR

QUANAH PETROLEUM, INC. ✓

3. ADDRESS OF OPERATOR

14800 Quorum Dr., Suite 500, Dallas, TX 75240

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

At surface

660' FNL, 660' FWL

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED, GAS

U.S. GEOLOGICAL SURVEY

12. COUNTY OR PARISH

Eddy

13. STATE

NM

15. DATE SPUDDED

12-7-81

16. DATE T.D. REACHED

1-5-82

17. DATE COMPL. (Ready to prod.)

3-13-82

18. ELEVATIONS (DF, RKB, RT, GR, ETC.) *

3171.0 GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

7665'

21. PLUG BACK T.D., MD & TVD

7597' PB

22. IF MULTIPLE COMPL., HOW MANY *

NA

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

Surface to TD

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

7558'-6871' (Bone Springs)

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL/SFL, FDL/CNL, CBL,CCL,VDL,GR, TEMP

27. WAS WELL CORED

Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
12-3/4"	43#	526'	14-3/4"	275 sx CL C w/2% CaCl	none
8-5/8"	24#	2420'	11"	800 sx lite, 8#/sx salt, 4#/sx Cello-seal, plus 200 sx CL C 2% CaCl	1#/sx Cello-seal
5-1/2"	17#, 15.5#	7665'		1190 sx Poxmix, 4#/sx Cello-seal	CF9, .3% TF4, .3% KCl

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT *	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

7558'-6871' 1 spf, 30 holes, .43 dia

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7558'-6871'	2300 gal 15% NE FE slick ret w/50 ball sealers.
	Sand frac w/80,000 gal Versagel

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
3-18-1982		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3-19-82	24	32/64	→	171.63	1700	411.37	9941.1
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY (API CORR.)	
---	1900	→					

34. DISPOSITION OF GAS (Sold, used, or burned)

Vented

TEST WITNESSED BY

4-pt by USGS from Artesia

35. LIST OF ATTACHMENTS

INCLINATION REPORT, 1 & 1000 HORIZONTAL REQUEST, 4-POINT TEST

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

SIGNED

J. A. CHAPMAN

TITLE

ENGINEERING TECHNICIAN

DATE

3-31-1982

(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 33.

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 interval(s), 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: "Seal 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 POROSITY ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CEMENTION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. (GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE TEST DEPTH
DST #1	5769'	5810'	TOOL OPENED: 9:24 AM, 12-30-81 IHP 15 Min. 2826 IF 15 Min. 8 psi to 9 psi ISIP 30 Min. 2958 FF 60 Min. 10 psi to 110 psi FSIP 120 Min. 2824 FHP 120 Min. 2826 NO GAS TO SURFACE; INITIAL BLOW: WEAK BUT STEADY. <u>FINAL BLOW:WEAK</u> BUT STEADY. RECOVERED 2' OIL AND 178' WATER (115m CL) SAMPLE CHAMBER 0 PSI 2000 CC WATER. BHT @ 100 DEGREES. TOOL RELEASED: 13:14 30% RECOVERY 30% RECOVERY TOTAL 51 SIDEWALL CORES TAKEN			
CORE RUN #1	7616'	4463'				
CORE RUN #2	4280'	2615'				

WELL NAME & NUMBER Hays Federal "A" #1

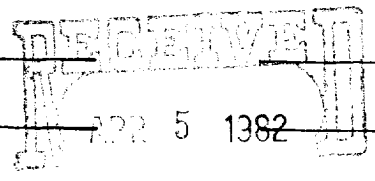
LOCATION 660' FNL & 660' FWL, Sec. 13, , T-26-S, R-27-E
(Give Unit, Section, Township and Range)

OPERATOR Quanah Petroleum, Inc., 4835 LBJ Freeway, Suite 525, Dallas, Texas 75234

DRILLING CONTRACTOR Kenai Drilling of Texas, Inc., P.O. Box 6725, Odessa, Texas 79762

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
525	2 3/4 7650		
1531			
1/4 2420			
3/4 3110			
3/4 3671			
4244			
1/4 4742			
3/4 5239			
1/2 5872			
6051			
6144			
1/4 6736			
3/4 6804			



Drilling Contractor Kenai Drilling of Texas, Inc.

By Robert A. Smith
Robert A. Smith, Adm. & Eng. Mgr.

Subscribed and sworn to before me this 15th day of January, 19 82

Barbara J. LaGrone
Notary Public Barbara J. LaGrone

My Commission Expires 9-18-85 Ector County Texas