

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

dsf
up

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

JAN 25 1994

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells)
30-015-26460

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☐ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☒

b. Type of Well:

OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. Name of Operator

ORYX ENERGY COMPANY

3. Address of Operator

P.O. BOX 2880, DALLAS, TX 75221-2880

7. Lease Name or Unit Agreement Name

PARDUE FARMS

8. Well No.

2

9. Pool name or Wildcat

EAST LOVING DELAWARE

4. Well Location

Unit Letter H : 1950 Feet From The NORTH Line and 660 Feet From The EAST Line

Section 10

Township 23S

Range 28E

NMPM EDDY

County

10. Proposed Depth

6025

11. Formation

BRUSHY CANYON

12. Rotary or C.T.

ROTARY

13. Elevations (Show whether DF, RT, GR, etc.)

3008 KB

14. Kind & Status Plug. Bond

BLANKET ON FILE

15. Drilling Contractor

APPROVED DRILLER

16. Approx. Date Work will start

1/15/94

17. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
11	8 5/8	24#	525	300	SURF
7 7/8	5 1/2	14 & 15.5	6270	1550	CIRC

SEE ATTACHED PROCEDURE FOR SQUEEZING THE DELAWARE PERFS (6072-6115).

PERF BRUSHY CANYON ZONE.

ACDZ.

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Rod L. Bailey TITLE PRORATION ANALYST DATE 01/06/94

TYPE OR PRINT NAME ROD L. BAILEY

TELEPHONE NO. 214 715-4828

(This space for State Use)

APPROVED BY SUPERVISOR, DISTRICT II

TITLE _____ DATE JAN 26 1994

CONDITIONS OF APPROVAL, IF ANY:

DATE: November 23, 1993

WELL NAME: PARDUE FARMS #2
FIELD: EAST LOVING - DELAWARE
LOCATION: 1950' FNL & 660' FEL SEC 10-T23S-R28E
EDDY COUNTY, NEW MEXICO

DATA

Permanent Zero Point: ZERO = KB = 11' AGL
PBTD: 6131'
Casing Size, Weight, Depth: 5 1/2" 14 & 15.5# K-55 @ 6270'
Retainer: NONE
Packer Type & Depth: NONE
Tubing Size, Weight, Type, Depth: 2 7/8" 6.5# J-55 @ 6114'
TOC: SURF
Log:
Perfs (Formation & Depth): BRUSHY CANYON (6072-6116)

PROCEDURE

1. MIRU.
2. POH W/ RODS & PUMP
3. ND WELLHEAD. NU BOP
4. POH W/2 7/8" 6.5# J-55 TBG.
5. RIH W 5 1/2" CMT RET ON 2 7/8" 6.5# J-55 TBG. SET RET @ 6025'.
6. RU CEMENTER. SQZ DELAWARE (6072-6115) DWN 2 7/8" 6.5# TBG W/50 SXS CMT. RD CEMENTER. STING OUT OF RET. POH.
7. RU WEDGE. PERF W/4" CSG GUN 23 GM 0.5" HOLE CORRELATE W/ ATTACHED ATLAS WIRELINE SERVICES GR/CCL DATED 10-10-90 AS FOLLOWS:

BRUSHY CANYON	(5973-5975)	2'	2 SPF	4 HOLES
	(5980-5982)	2'	2 SPF	4
	(5984-5986)	2'	2 SPF	4
	(5992-5998)	6'	2 SPF	12
	(6001-6003)	2'	2 SPF	4
	(6012-6014)	2'	2 SPF	4
		16'		32 HOLES

8. RIH W/ 5 1/2" PKR ON 2 7/8" 6.5# J-55 TBG TO $\pm$ 5900' TO ISOLATE BRUSHY CANYON (5973-6014).
9. RU BJ SERVICES. ACDZ BRUSHY CANYON (5973-6016) DWN 2 7/8" TBG @ 6 BPM EXP TP = 2500 PSI. MAX TP = 4000 PSI AS FOLLOWS:
 - A. PUMP 1500 GALS 15 NE HCL
 - B. EVENLY DROP 50 BS
 - C. FLUSH W/ 25 BBLS 2% KCL WTR
10. SWB BACK LOAD. SWB TO TST
11. A DECISION WILL BE MADE WHETHER OR NOT TO HYDRAULIC FRACTURE THIS ZONE OR TO SET CEMENT RET AND SQZ.
12. RU BJ SERVICES. FRAC BRUSHY CANYON (5973-6014) DWN 5 1/2" CSG @ 20 BPM EXP TP = 2500 PSI. MAX TP = 4000 PSI AS FOLLOWS.

<u>STAGE</u>	<u>VOLUME</u>	<u>CONC</u>	<u>TOTAL</u>	<u>SAND</u> <u>16/30</u>
PAD	6000 GALS SPECTRA FRAC G-4000	0 PPG	0#	OTTAWA
1	2000 GALS SPECTRA FRAC G-4000	2 PPG	4,000#	OTTAWA
2	3000 GALS SPECTRA FRAC G-4000	4 PPG	12,000#	OTTAWA
3	3000 GALS SPECTRA FRAC G-4000	6 PPG	18,000#	OTTAWA
4	2000 GALS SPECTRA FRAC G-4000	8 PPG	16,000#	OTTAWA
FLUSH	$\pm$ 4000 GALS 2% KCL			
TOTAL	16000 GALS SPECTRA FRAC G-4000		50,000#	OTTAWA

13. FLOW BACK IMMEDIATELY
14. RIH W/ 5 1/2" PKR ON 2 7/8" TBG SWB TO TST. REPORT VOLUMES TO DALLAS. POH W/ 2 7/8" TBG & PKR.
15. A DECISION WILL BE MADE WHETHER OR NOT TO PRODUCE OR CMT SQZ THIS ZONE.
16. RU WEDGE. PERF W/ 4" CSG GUN 23 GM 0.5" HOLE CORRELATE W/ ATTACHED ATLAS WIRELINE SERVICES GR/CCL DATED 10-10-90.

BRUSHY CANYON (5800-5830) 2 SPF 30' 60 HOLES.
17. RIH W/ 5 1/2" RBP & PKR ON 2 7/8" 6.5# J-55 TBG SET RBP @ $\pm$ 5900'. PULL UP ONE JT AND SET PKR & TEST RBP TO 4000 PSI REL PKR. SET PKR @ 5750' TO ISOLATE BRUSHY CANYON (5800-5830).
18. RU BJ SERVICES. ACDZ BRUSHY CANYON (5800-5830) DWN 2 7/8" TBG @ 6 BPM EXP TP = 2500 PSI. MAX TP = 4000 PSI AS FOLLOWS:
 - A. PUMP 1500 GALS 15% NEHCL
 - B. EVENLY DROP 90 BS
 - C. FLUSH W/ 25 BBLS 2% KCL WTR.
19. SWB BACK LOAD. SWB TO TST.0

20. A DECISION WILL BE MADE WHETHER OR NOT TO HYDRAULIC FRACTURE THIS ZONE OR TO CEMENT SQZ.
21. RU BJ SERVICES. FRAC BRUSHY CANYON (5800-5830) DWN 5 1/2" CSG @ 20 BPM EXP TP = 2500 PSI MAX TP = 4000 PSI AS FOLLOWS:

<u>STAGE</u>	<u>VOLUME</u>	<u>CONC.</u>	<u>TOTAL</u>	<u>SAND</u> <u>16/30</u>
PAD	6000 GALS SPECTRA FRAC G-4000	0 PPG	0#	
1	2000 GALS SPECTRA FRAC G-4000	2 PPG	4,000#	OTTAWA
2	3000 GALS SPECTRA FRAC G-4000	4 PPG	12,000#	OTTAWA
3	3000 GALS SPECTRA FRAC G-4000	6 PPG	18,000#	OTTAWA
4	2000 GALS SPECTRA FRAC G-4000	8 PPG	16,000#	OTTAWA
FLUSH ± 4000 GALS 2% KCL				
TOTAL	16000 GALS SPECTRA FRAC G-4000		50,000#	OTTAWA

22. FLOW BACK IMMEDIATELY.
23. RIH W/ RET TOOL & 5 1/2" PKR ON 2 7/8" TBG SET PKR @ ± 5750. SWB TO TST REPORT TO DALLAS.
24. REL PKR. RET BP. POH W/ 2 7/8" TGB PKR & RBP.
25. A DECISION WILL THEN BE MADE CONCERNING PRODUCTIVITY AND ARTIFICIAL LIFT.
26. RR.

WELL COMPLETION SKETCHES SUN-5036-4-A

WELL Pardue Farms #2 FIELD EAST Loving - Delaware DATE 11-5-93

☒ PRESENT COMPLETION ☐ SUGGESTED COMPLETION

PERMANENT WELL BORE DATA

Zero = KB = 11' AGL

11" Hole

8-5/8" 24# K-55 @
525' w/300 SKS CIRC

7-7/8" Hole

5 1/2" 14 1/2# K-55 @
6270' w/1550 SKS CIRC
TA = 6270'

DATA ON THIS COMPLETION

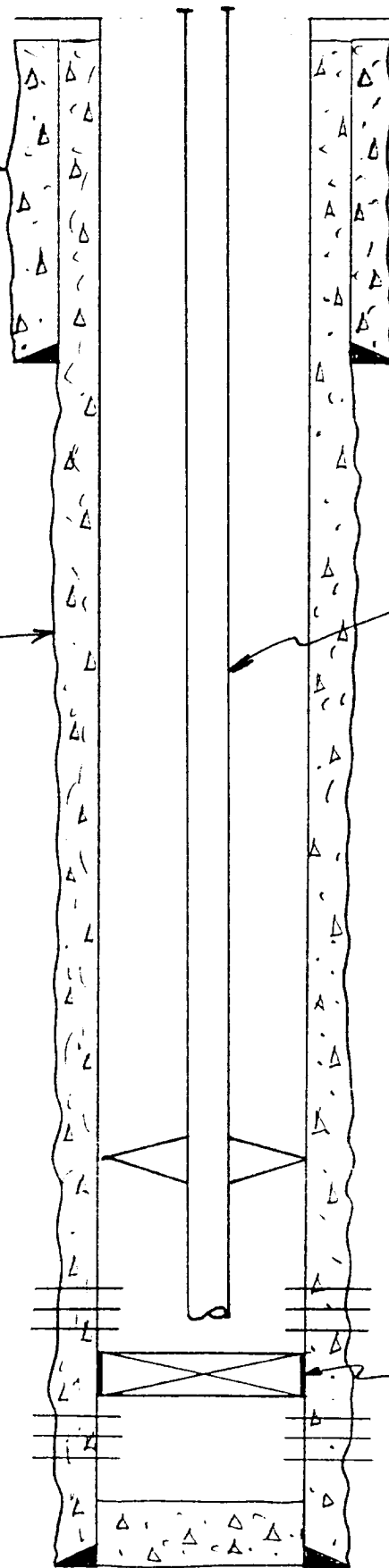
2-7/8" 6.5# J-55 @
6114'

Delaware: (6072-6115)

CIBP @ 6131'

Delaware: (6137-6160)

PRTA = 6121' (API)



WELL COMPLETION SKETCHES SUN-5036-4-A

WELL Pardee Farms #2 FIELD EAST Loving - Delaware DATE 11-5-93

☐ PRESENT COMPLETION

☒ SUGGESTED COMPLETION

PERMANENT WELL BORE DATA

DATA ON THIS COMPLETION

Zero = KB = 11' AGL

11" Hole

8-7/8" 24# K-55 @
525' w/300 SKS CIRC

7-7/8" Hole

2-7/8" 6.5# J-55 @
± 5850
TAC @ ± 5780'

Brushy Canyon (5800-5830)

Brushy Canyon (5973-6014)

5 1/2" CMT Ret @ 6025' w/
50 SKS CMT
Delaware: (6072-6115)

CIBP @ 6131'

Delaware: (6137-6160)

5 1/2" 1415.5# K-55 @
6270' w/1550 SKS CIRC
TA - 1270'

DATA - 1121' / 100'

