

(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM-033312-A-82799

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Grama Ridge Federal

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Grama Ridge-Morrow Gas

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

9. T-22-S, R-34-E

12. COUNTY OR PARISH

Lea

13. STATE
New Mexico

B, 660' FNL & 1980' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3600' GR

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Spud & Set Casing

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

API 30-025-30686

10-14-89 Spudded 17-1/2" hole

10-17-89 Ran & Cmt'd 40 jts, 13 3/8", 54/5#, K-55, STC & Butt csg, CS 1720', FC 1671'.
Howco cmt'd w/900 sxs Class "C", 2% gel + 2% Cacl₂, tailed in w/400 sxs Class
"C" + 1% Cacl₂. FP 500# to 650#. Floats held, circ'd 403 sxs cmt to surface, WOC
8 hrs.

10-23-89 12-1/4" hole to 5000'. Ran & cmt'd 118 jts, 9 5/8", 36#, K-55, STC Csg, CS 5000',
FC 4956', Stage Collar @4000'. Cmt'd 1st stage w/375 sxs "C" neat, FP 500#-1100#,
had full returns thru-out 1st stage. Opened DV tool, cmt'd 2nd stage w/1500
sxs 65:35:6 Lite + 10% salt + 10 PPS Gilsonite, tailed w/150 sxs "C". Bumped plug
1100-2000 psi, closed DV tool, circ'd 414 sxs to surf. WOC 10 hrs.

11-9-89 8 3/4" hole to 11,700'. Ran 268 jts 7", 26#, N-80, LTC Csg, CS 11,700', FC 11,654'.
Howco cmt'd w/800 sxs 65:35:6 "H" Lite + 5 PPS Gilsonite, followed by 300 sxs
"H" + 0.6% retarder. FP 1100-2200#, floats held. Ran temp. survey, TOC @6550,
PBSD 11,626

12-3-89 6-1/8" hole to 13,350'. Ran 45 jts 4 1/2" 13.50#, N-80, LTC Csg, TOL 11,468'.
Howco cmt'd w/280 sxs "H" + 0.2% CFR-3 + 0.8% gas stop + 0.1% HR-7, 2200 psi,
floats held.

CS 13,348', FC 13,304', LC 13,260'

18. I hereby certify that the foregoing is true and correct

SIGNED

Maria L. Perez

TITLE

Proration Analyst

DATE

1/16/90

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

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 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

PRIVACY ACT

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES: (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations. (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2). (3) Analyze future applications to drill or modify operations in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1/10/90			
Company Oryx Energy Company				Connection Air					
Pool Grama Ridge-Morrow Gas				Formation Morrow				Unit	
Completion Date 12/22/89		Total Depth 13350		Plug Back TD 13250		Elevation 0		Farm or Lease Name Grama Ridge Fed	
Coq. Size 4.500	Wl. 13.5	d 3.920	Set At 13350	Perforations: From 13013 To 13039		Well No. 1			
Thq. Size 2.875	Wl. 6.5	d 2.441	Set At 12995	Perforations: From 0 To 0		Unit Sec. Twp. Rge. 23-22S-34E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single-Gas						Packer Set At 12995		County Lea	
Producing Thru Tubing		Reservoir Temp. °F 199 # 13026		Mean Annual Temp. °F 60.0		Base. Press. -- P _g 13.2		State N M	
L 13026	H 13026	G _g .642	% CO ₂ .49	% N ₂ .21	% H ₂ S .00	Prover .0	Meter Run 4.0	Taps Flange	

FLOW DATA						TUBING DATA		BHP DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							5200	65			72
1.	4.03 x 1.750			410	4.5	70	5148	60	0	0	1
2.	4.03 x 1.750			410	16.0	70	5010	60	0	0	1
3.	4.03 x 1.750			410	40.0	68	4865	60	0	0	1
4.	4.03 x 1.750			410	69.0	68	4660	60	0	0	1
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcd
1	14.93	43.64	423.2	.9905	1.2481	1.0394	837
2	14.93	82.29	423.2	.9905	1.2481	1.0394	1578
3	14.93	130.11	423.2	.9924	1.2481	1.0400	2501
4	14.93	170.88	423.2	.9924	1.2481	1.0400	3285
5							

NO.	P _g	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.63	530	1.43	.926	105.7	53.5	.642	X X X X X X X X	672.	370
2	.63	530	1.43	.926				X X X X X	671.	378
3	.63	528	1.43	.925						
4	.63	528	1.43	.925						
5										

P _r 5209.6 P _c ² 27140.				(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 5.3718$		(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 2.5852$	
NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 8494.$		
1	26638	5167	26695	445			
2	25233	5032	25323	1817			
3	23797	4895	23961	3178			
4	21839	4700	22088	5052			
5							

Absolute Open Flow 8494		Mcd @ 15.025		Angle of Slope θ 60.5		Slope, n .565	
Remarks: Choke size: 1st rate 6/64 2nd rate 7/64 3rd rate 8/64 4th rate 9/5/64							
JAN 19 1990							
Approved By Division ORIGINAL SIGNED BY JERRY SEXTON		Conducted By: Bennett & Cathey		Calculated By: Matt Lee		Checked By:	