24

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995
•
5. LEASE DESIGNATION AND SERIAL NO. NM-04444
6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
7. UNIT AGREEMENT Hogback
Northeast Hogback/
/= / / /
8. FARM OR LEASE NAME WELL NO CK Unit
tneast Hogback Unit
-
9. API WELLINO.
3.364 70
10. FIELD AND POOL, OR WILDCAT Horseshoe Gallup
noisesilve Gallup
11, SEC., T., R., M., OR BLK.
AND SURVEY OR AREA
14-30n-16w NMPM
14-3011-10W NMPM
12. COUNTY OR PARISH 13. STATE
San Juan 📒 NM

BUREAU OF LAND MANAGEMENT 6. 15 APPLICATION FOR PERMIT TO DRILL OR DEEPEN 1a. TYPE OF WORK 7. UI DRILL V DEEPEN No b. TYPE OF WELL MULTIPLE WELL Y WELL WELL ZONE lorthe 2. NAME OF OPERATOR Playa Minerals & Energy, Inc. (281) 931-3800 3. ADDRESS AND TELEPHONE NO. 650 N. Sam Houston Pkwy E., Suite 500, Houston, TX, 77060 Ho LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) 11. ε 1500' FNL & 2300' FEL At proposed prod. zone Same 12. c 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 4.5 air miles N of Waterflow, NM

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.

3.4 San 16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS WELL. 340' 160.0 (Also to nearest drig. unit line, if any) DISTANCE FROM PROPOSED LOCATIONS
TO NEAREST WELL, DRILLING, COMPLETED, 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS 415' 3,250' Rotary OR APPLIED FOR, ON THIS LEASE, FT. 22. APPROX. DATE WORK WILL START 21_ ELEVATIONS (Show whether DF, RT, GR, etc.) 5.507' ungraded ground Upon Approval PROPOSED CASING AND CEMENTING PROGRAM WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT SIZE OF HOLE GRADE SIZE OF CASING 8-3/4" (J-55)20# 320 ≈107 cu ft & to surface ≈564 cu ft & to surface 3,250' 4-1/2" (J-55) 9.5# 6-1/4" This action is conject to tochnical and RRATIONS AUTHORIZED ARE precedural review pursuant to 43 CFR 9165.3 : CORÊMIANGE WITH ATTACHED and appeal pursuant to 43 CFR 3105.4. GOOD FENERALS!

Well is 340' from closest lease line and 1,500' from closest unit line. Well is 415' from closest lease well (P&A) and 1,345' from closest active unit well.



cc: BLM (& OCD), Jackson

d proposed new productive zone. If proposal is to drill or IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on dec

ine Jolan Gat	Consultant (505) 466-8120	9-6-00
his space for Federal or State office use)		
MIT NO.	APPROVAL DATE	1/01

CONDITIONS OF APPROVAL, IF ANY:	, ,	
/s/ Joel Farrell		JUL 11 1191
APPROVED BY	TITLE	DATE
	*See Instructions On Reverse S	iide

MACON

in knowingly and willfully to make

P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT IV PO Box 2088, Santa Fe, NM 87504-2088

Energy, Minerals & Natural Resources Department

Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719 OIL CONSERVATION DIVISION DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

P.O. Box 2088 Santa Fe, NM 87504-2088

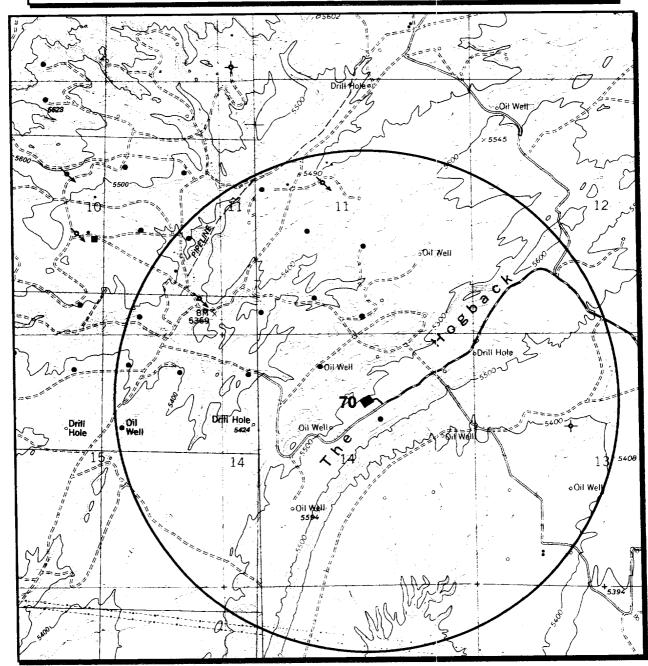
☐ AMENDED REPORT

		γ	VELL L	OCATIO	N AND AC	REAGE DEDI	CATION PL	AT [
9 API	Number	21.6	1	² Pool Code			³ Pool Name			
30.005	<u>5 30</u>	36 (-	32	2870		HORSESHOE	GALLUP		W.	ell Number
Property Co.		Property Name N.E.H.U. *Well Number					70			
OGRID No		Operator Name Elevation								
171052	171052 PLAYA MINERALS & ENERGY, INC.						5507'			
		<u> </u>			10 Surface	Location				
UL or iot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
G	14	30-N	16-W		1500'	NORTH	2300'	EA	ST	SAN JUAN
			" Botte	om Hole	Location	If Different Fro				- 1
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	at line	County
12 Dedicated Acre	<u></u>	1	18 Joint or	[nfill	14 Consolidation	Code	□ Order No.	<u> </u>		
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	16		1-11 W	T						OMITICA MICAN
FD. 1929 U.S.G.L.O. BC.		526	5.90'			SET 1/2" RE W/ 1 1/2" STAMPED 889	BAR 17 O			RTIFICATION contained herein is
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						FD. UNMA 3 1/2" A	RKED Certificate			

Oil Well:
Gas Well:
Injection Well:

Oil Well:

Plugged & Abandoned Well:
Access:



County: San Juan

Playa: NEHU 70

Legal: SW NE Sec 14 T30N R16W

Existing Wells, Access

Prepared by: Permits West | 1" = 2000'





Playa Minerals & Energy, Inc. Northeast Hogback Unit 70 San Juan County, NM

Drilling Program

1. Formation Tops

The estimated tops of important geologic markers are:

Formation Name	GL Depth	KB Depth	Subsea Elevation
Cliffhouse Ss	000'	000'	+5,490'
Pt Lookout	1,270'	1,270'	+4,220'
Upper Mancos Shale	1,610'	1,610'	+3,880'
Upper Gallup Ss	2,940'	2,940'	+2,550'
Lower Gallup	3,050'	3,050'	+2,440'
Lower Mancos	3,120'	3,120'	+2,370'
Total Depth (TD)*	3,250'	3,250'	+2,240'

^{*} all elevations reflect the ungraded ground level of 5,391'.

2. <u>Notable Zones</u>

Oil & Gas Zones	Water Zones Cliffhouse (000')	Minerals Zones
Upper Gallup (2,940')	,	
Lower Gallup (3.050')		

Water Zone will be protected with casing, cement, and weighted mud. Fresh water encountered during drilling will be recorded by depth, cased, and cemented. Oil and gas shows will be tested for commercial potential based on the well site geologist's recommendations.

3. Pressure Control

BOP systems will follow Onshore Order No. 2 and API RP 53. The drilling contract have not been yet awarded, thus the exact BOP model to be used is not yet known. A typical model is on page 3. Maximum expected pressure is 400 psi. BOP controls will be installed before drilling the surface casing plug and remain in use until the well is completed or abandoned. Once out from under the surface casing, a minimum 2,000 psi BOP and choke manifold system will be used.

All BOP mechanical and pressure tests will be recorded on the driller's log. BOP's will be inspected and operated at least daily to assure good mechanical working order. Inspections will be recorded on the daily drilling report. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place.



Playa Minerals & Energy, Inc. Northeast Hogback Unit 70 San Juan County, NM

4. <u>Casing & Cement</u>

Hole size	<u>O.D.</u>	Weigh (lb/ft)	<u>Grade</u>	Type	Age	GL Setting Depth
8-3/4" 6-1/4"	7" 4-1/2"	20		ST&C		

Surface casing will be cemented to the surface as follows:

- -Break circulation with water
- -Pump $\approx 90 \text{ sx } (107 \text{ cu ft}) \text{ of Class B+ 2% CaCl}_2$
- -Drop cement wiper plug and displace to 30' above guide shoe
- -WOC 12 hours

Production casing will be cemented to the surface as follows:

- -Break circulation with water
- -Pump ≈ 10 bbl of fresh water
- -Pump \approx 145sx (\approx 564 cu ft) Class B cement with 3% chemical extender and 1/4#/sx cellophane flakes followed by \approx 80sx (94 cu ft) Class B cement with 2% CaCl₂ +1/4#/sx cellophane flakes.
- -Drop rubber cement plug and displace to float collar
- -Centralizers will be run on the 1st, 3rd, 5th, 9th and 11th joints.

5. Mud Program

Surface hole will be drilled with Aquagel/lime slurry spud mud mixed to 45-50 sec/qt viscosity.

Production hole will drilled with an air mist system, and foamer as needed.

6. Coring, Testing & Logging

No cores or DST's are planned. Compensated Density-Neutron logs will be run from TD to 7" casing. CCL and cement bond logs will be run if needed.

7. Downhole Conditions

No abnormal temperatures, abnormal pressures, nor hydrogen sulfide are expected. Maximum pressure will be $\approx 400 psi$.

8. Other Information

The anticipated spud date is November 1, 2000. It is expected it will take ≈ 5 days to drill and ≈ 30 days to complete the well.

