APPROVED BY .

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

FORM APPROVEI	D
OMB NO. 1004-013	36
Expires: February 28,	1995

	AP	5. LEASE DESIGNATION AND SERIAL NO NM-04407 6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A 7. UNIT AGREEMENT NAME NORTHEAST Hogback							
J //	b. TYPE OF WELL OIL WELL 2. NAME OF OPERATO Playa Mine 3. ADDRESS AND TELEPHON 850 N. Sam 4. LOCATION OF WELL At SUPLACE		8. FARMOR LEASE NAME, WELL IN THE AST HOGD TO THE AND POOL, OR HORSESHOE	ack Uni					
	At proposed prod 14. DISTANCE IN MIL 15. DISTANCE FROM E LOCATION TO NEAPROPERTY OR LEA (Also to nearest 18. DISTANCE FROM TO NEAREST WEI OR APPLIED FOR, OF	14-30n-16w NMPM 12. COUNTY OR PARISH 13. STATE San Juan NM OF ACRES ASSIGNED THIS WELL. 40 ARY OR CABLE TOOLS ROTARY 22. APPROX. DATE WORK WILL START							
	23.		5,409' ung		D CEMENTING PROGRAM		Upon App		
	SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER F	TOOT	SETTING DEPTH		QUANTITY OF CEMENT		
	8-3/4" 7" (J-55) 20# 320'						≈107 cu ft & t	o surface	
	6-1/4" 4-1/2" (J-55) 9.5#				2,750'-		≈470 cu ft & to surfac		
	procedural rows: and appeal para	Tight to instance and or class		d 1,6	33' from closes	\$5.50 to 1.1 H485.44	e for evens author The Later with Value redeathran line.		



BIA. BIM (& OCD).

Ada Clat	Consultant (505) 466-8120	9-6-00
nis space for Federal or State office use)		
MIT NO	APPROVAL DATE	20/01

*See Instructions On Reverse Side

TO REAL PROPERTY.

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P.U. BOX 1980, Hobbs, N.M. 88241-1980

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

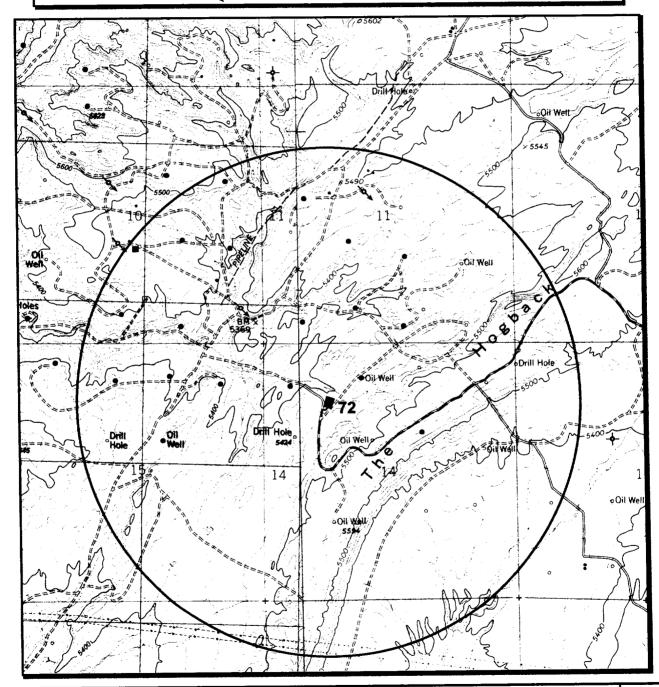
☐ AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number Pool Code						Pogl Name						
30.045-30365 32870 HORSESHOE GALLUP						UP						
⁴ Property Code ⁸ Property Name							• ₩	ell Number				
_010547	2\$	178		<u> </u>		EHU						72
OGRID No	i				*Oper						•	Elevation
171052				PLAYA	MINERALS	S &	ENERGY, IN	C.				5409'
					10 Surfa	ce	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	ł	from the	East/Wes		County
С	14	30-N	16-W		1145		NORTH		1475	WES	· 1	SAN JUAN
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UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet	from the	Bast/Wes	st line	County
¹³ Dedicated Acre		1	¹³ Joint or	infill	14 Consolidat	tion (Code	16 Ord	er No.	<u> </u>		<u> </u>
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<u>`</u>					<u> </u>			<u></u>				
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Water Supply Well: Oil Well: Plugged & Abandoned Well: Gas Well: Access: Injection Well:

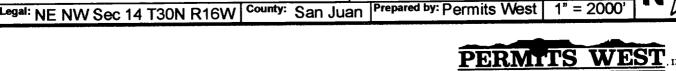


Playa: NEHU 72

Existing Wells, Access

1" = 2000' Prepared by: Permits West





Playa Minerals & Energy, Inc. Northeast Hogback Unit 72 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'	+5,420'
Pt Lookout	750'	750'	+4,670'
Upper Mancos Shale	1090'	1090'	+4,330'
Upper Gallup Ss	2,420'	2,420'	+3,000'
Lower Gallup	2,530'	2,530'	+2,890'
Lower Mancos	2,600'	2,600'	+2,820'
Total Depth (TD)*	2,750'	2,750'	+2,710'

^{*} all elevations reflect the ungraded ground level of 5,420'.

2. Notable Zones

Oil & Gas Zones	Water Zones Cliffhouse (000')	Minerals Zones
Upper Gallup (2,420') Lower Gallup (2,530')	,	

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.



4. Casing & Cement

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 9.5		ST&C		320' 2,750'

Surface casing will be cemented to the surface as follows:

- -Break circulation with water
- -Pump ≈90 sx (107 cu ft) of Class B+2% CaCl₂
- -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 121sx (\approx 470 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 ≈ 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.

