APPROVED BY

HOLD C104 FOR

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

*See Instructions On Reverse Side

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

BUREAU OF LAND MANAGEMENT					5. LEASE	5. LEASE DESIGNATION AND SERIAL NO. NM-077281		
ADDI ICATION FOR REPAIT TO DOUG OR DEEDEN					6. IF IND	(Surfac	OR TRIBE NAME	
DRIL	_L 🗹 —	DEEPEN	250 (50 0)	PM 3:37	7. UNIT North		logback	
WELL GAS	OTHER		SINGLE- V	ZONE	Northea:	st Hog	oack Uni	
laya Minerals	& Energy, lı	1C. (281) 931-3	3800		9. API WE			
3. ADDRESS AND TELEPHONE NO.					10 FIEL	D 5.50 OND POOL, O	-045-3038	
650 N. Sam Houston Pkwy E., Suite 500, Houston, TX, 77060 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)				Hors	eshoe	Gallup _		
At proposed prod. zone		k 1255' FEI	L		AMD AND	T., R., M., OR I BURVEY OR AN	NMPM	
	ND DIRECTION FROM NEAR		OFFICE®	 	I I	TY OR PARISH		
5.5 air miles	N of Waterflow		6. NO. OF ACRES IN	LEASE 17	San J		NM	
LOCATION TO NEAREST PROPERTY OR LEASE LI (Also to nearest drig	INE, FT. . unit line, if any)	170'	32	20.0	TO THIS WELL	40	NEX NE	
3. DISTANCE FROM PROPO TO NEAREST WELL, DE OR APPLIED FOR, ON THE	RILLING, COMPLETED, S LEASE, FT.	1,784'	9. PROPOSED DEPTH	900'-		Rotary		
. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)	5,555' ungr	aded ground		22. AF	pon Ap	proval	
		PROPOSED CASING	G AND CEMENTING	PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER POO				TITY OF CEME:		
8-3/4"	7" (J-55)	20#		320'-		= :	to surface -	
6-1/4"	4-1/2" (J-55)	9.5#		900'_	***	US CU IL Q	to surface -	
Vell is 170' fro	om closest lease	S. S	JUL 2001 RECEIVED OIL CON. DIV DIST. 3	10 m 10 12 m 10 11 m 10 12 m 10	urna tirki ji BODA DAUT BOBAL HBO	9 (1) (1) 894 5	ZED AFE ATTACHED OCD), Jacks	
IN ABOVE SPACE DESCRIE deepen directionally, give peri	BE PROPOSED PROGRAM: I tinent data on subsurface location	ons and measured and tru	consultant	owout preventer p	-8120		proposal is to drill a	
	eral or State office use)		APPROVAL DAT	×	7/6/	01		
PERMIT NO.	not warrant or certify that the a	pplicant holds legal or equ			7/6/ which would entitle	() / the applicant to o	onduct operations	

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994

Submit to Appropriate District Office

Instructions on back

P.O. Drawer DD, Artesia, N.M. 88211-0719

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV PO Box 2068, Santa Fe, NM 87504-2088

1000 Rio Brazos Rd., Aztec, N.M. 87410

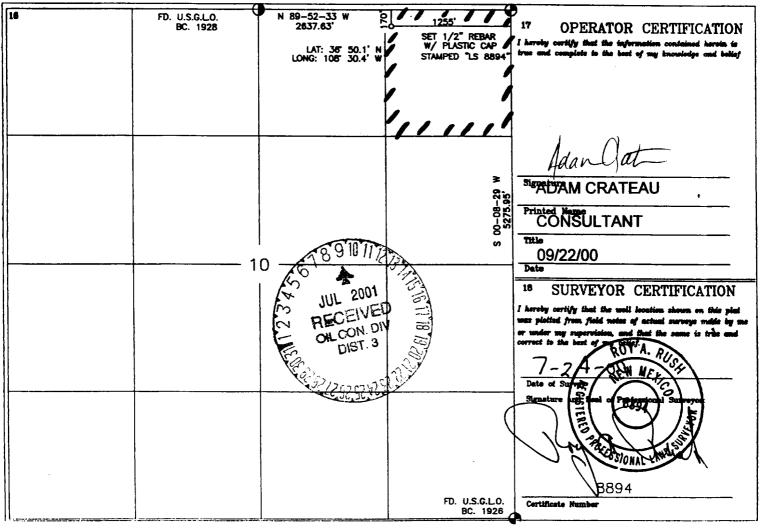
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT 32870 Code HORSESHOE GALLUP Name ¹ APl Number Property Cod • Well Number Property Name .016547 N.E.H.U. 65 OGRID No. *Operator Name • Elevation 171052 PLAYA MINERALS & ENERGY, INC. 5555'

279 950 29 71 2:37

¹⁰ Surface Location UL or lot no. Section Township Lot ktm Feet from the North/South line Range Feet from the East/West line 10 30 Ñ NORTH 1255' **EAST** SAN JUAN 11 Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the North/South line | Feet from the East/West line County Dedicated Acres ¹⁹ Joint or Infill ¹⁴ Consolidation Code "Order No. 40 NENE

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Oil Well:
Gas Well:
Injection Well:

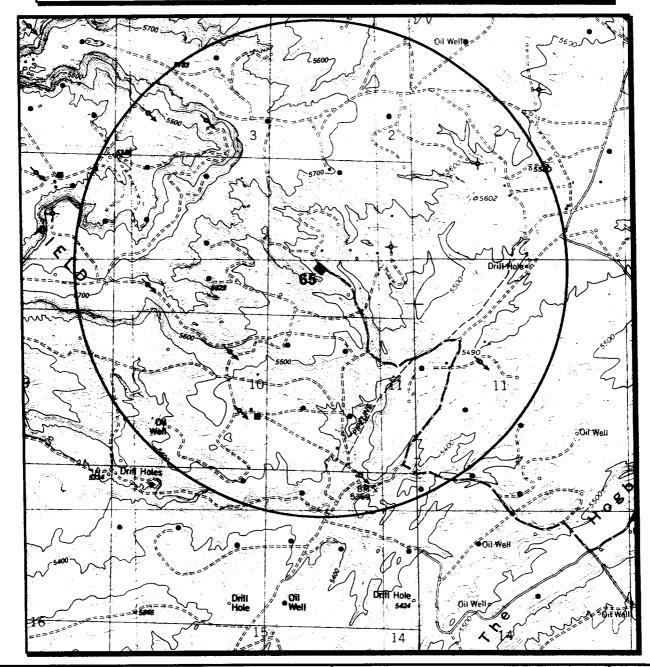
Oil Well:

Plugged & Abandoned Well:
Access:

Oil Well:

Plugged & Abandoned Well:

Access:



Central/Playa: NEHU 65

Legal: NE NE Sec 10 T30N R16W

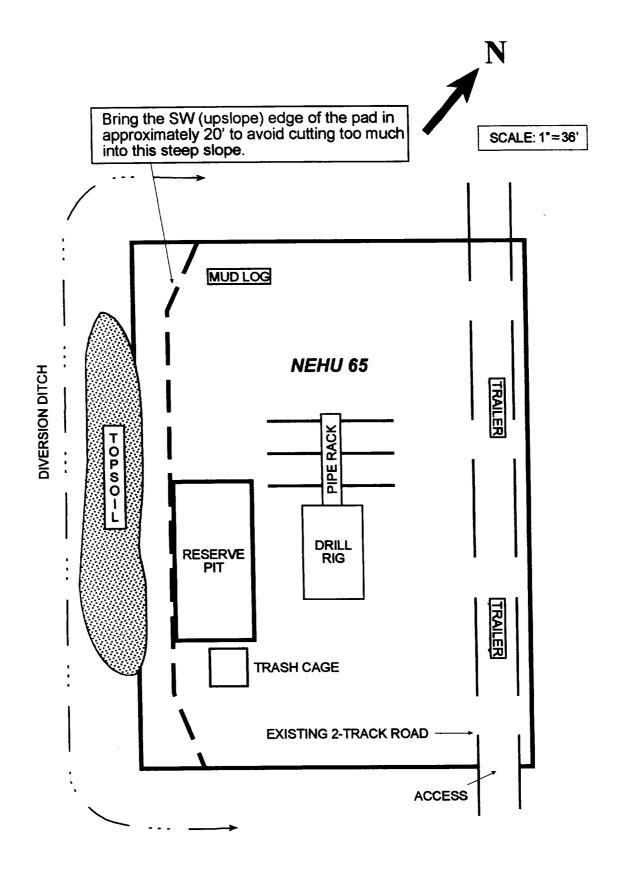
Existing Wells, Access

County: San Juan Prepa

Prepared by: Permits West | 1" = 200









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 9.5		ST&C ST&C		320' 1,900'

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 105sx (\approx 409 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. <u>Downhole Conditions</u>

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.



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Drilling Program

1. Formation Tops

The estimated tops of important geologic markers are:

Formation Name	GL Depth	KB Depth	Subsea Elevation
Pt Lookout	000'	000'	+5,580'
Upper Mancos Shale	260'	260'	+5,320'
Upper Gallup Ss	1,530'	1,530'	+4,050'
Lower Gallup	1,570'	1,570'	+3,940'
Lower Mancos	1,640'	1,640'	+3,940'
Total Depth (TD)*	1,900'	1,900'	+3,800'
			•

^{*} all elevations reflect the ungraded ground level of 5,580'.

2. Notable Zones

Oil & Gas Zones	Water Zones	Minerals Zones
Upper Gallup (1,530') Lower Gallup (1,570')		,

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. <u>Pressure Control</u>

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.

