SUBMIT IN TRIPLICATE.

(Other instructions on

FORM APPROVED OMB NO. 1004-0136

UNITED STATES DEPARTMENT OF THE INTERIOR

Expires: February 28, 1995

	ENT OF THE T TOF LAND MANA					5. LEASE DESIGNA	7281	NO.
APPLICATION FOR	R PERMIT TO	DRIL	L OR DE	PEN	N	avajo (Sur	face Oni	ÿ y °
DRILL D. TYPE OF WELL OIL OIL GAS	DEEPEN			,	1	Northeast		
WELL WELL OTHE	:R		NE V	ZONE	" Ho	rtheast	őgback l	Ųni
Playa Minerals & Energy	, Inc. (281) 93	31-380	0			8. API VELL.NO. 30-045-6	<u> </u>	8_
550 N. Sam Houston Pkwy E	E., Suite 500, I	Houst	ton, TX,	7706	0	10. FIELD AND PO		
LOCATION OF WELL (Report location clear) / At surface	y and in accordance wi	ith any S	tate requireme	nts.*)		Horsesno	e Gallup)
/ 1310' FNL & 1310' FEL						11. SBC., T., R., M. AND SURVEY (10-30n-1)	DR AREA	
4. DISTANCE IN MILES AND DIRECTION FROM	*	ST OFFICE	E •.			12. COUNTY OR PA	10. 0	
air miles N of Waterflo	ow, NM	1 16. NO	O. OF ACRES IN	LEASE		San Juan	NM	J ———
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)	1,310'	10		20.0		IIS WELL	0	
B. DISTANCE FROM PROPOSED LOCATION [®] TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	830	19. гн	OPOSED DEPTH	800'	20. ROTAE	Rota	•	
. ELEVATIONS (Show whether DF. RT. GR. et	້ 5,530 unເ	grade	d ground	t		Upon	Approva	CART*
	PROPOSED CAS	ING ANI	CEMENTING	PROGRA	vi			
SIZE OF HOLE GRADE SIZE OF CASIN		гоот	SETTING I			QUANTITY OF C		
8-3/4" 7" (J-55) 6-1/4" 4-1/2" (J-5!	· 	20# 320' 9.5# 1,800'—					ft & to surfa ft & to surfa	_
and appear personer to 63 GFR 3		100 AUU	201				· , J	
ABOVE SPACE DESCRIBE PROPOSED PROGRA epen directionally, give pertinent data on subsurface I	ocations and measured and	true vertic	n on present prod al depths. Give bl	owout prever	nter program,	if any.	•	
(This space for Federal or State office us	e)				5/	130/01		
PERMIT NO. Application approval does not warrant or certify that	the continue to 13.1		APPROVAL DATI		lence subject	nuld antitle the!:	Nt to conduct	
CONDITIONS OF APPROVAL, IF ANY: APPROVED BY	TITLE		(1/B) was	,		DATE		

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 Instructions on back

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

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

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

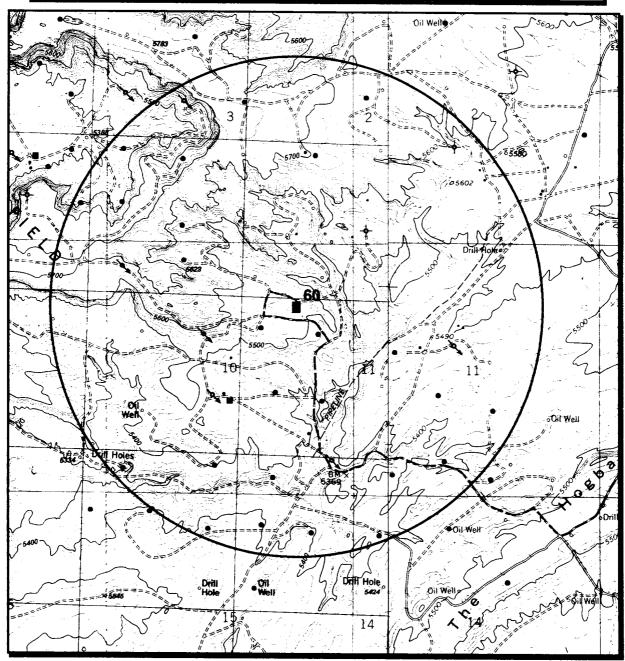
☐ AMENDED REPORT

			WELL I	OCATIO	N AND AC	CREAGE DED	ICATION P	LAT		
1 7	Number	7/ /	Pool Code Pool Name							
	-30	36/	32870 HORSESHOE GALLUP							
Property C				Property Name *Well Number						ell Number
-016547		25/28	<u> </u>	N.E.H.U. 60					60	
1				Operator Name					•	Elevation
171052		l		PLATA	MINERALS ar	id ENERGY, INC.				5530'
					¹⁰ Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
Α	10	30-N	16-W		1310	NORTH	1310	EAST	Γ	SAN JUAN
				om Hole	Location	If Different Fr	om Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
18 Dedicated Acre) rs		13 Joint or	Infili	4 Consolidation	Code	16 Order No.			<u> </u>
						Code	order No.			
NO ALLOW	ABLE V	VILL BE A	SSIGNE) TO TH	S COMPLETI	ON UNTIL ALL	INTERESTS I	HAVE BE	EEN CO	ONSOLIDATED
16		UR A N	ION-STA	INDARD (JNIT HAS B	EEN APPROVED	BY THE DI	VISION	·	
	{	!	FD. U.S.G.L.(BC. 1928	D. N	89-52-33 W	SET 1/2" REBA	CAP 17 O	ው የተያለተብ	ים מי	RTIFICATION
					2637.63'	PLASTIC STAMPED "LS 8	894" I hereby certi	ify that the is	formation	contained herein is
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					5		4			
						•				
	ļ				AT. 36"49.9' N.		À			
				LON	G. 108'30.5' W.	1310')		23	
							Λ_{Λ}	lan	Cint	:
					•		Signature		- 1000	
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						×	Printed Na	SULTA	NT	***
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						3		RVEYOR	CERT	TIFICATION
				(E)		T .				shown on this plat surveys made by me
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							$ \langle \cdot \rangle $	B /_ V)s
							1/19	MED.	VI	
							7	ESSION	AL LAND	50"
								V 889	4	•
					Ì	FD. U.S.G BC. 19	.L.O. Certificate 1	lumber		

Oil Well:
Gas Well:
Injection Well:

Water Supply Well:
Plugged & Abandoned Well:
Access:

Access:



Playa: NEHU 60

Existing Wells, Access

Legal: NE NE Sec 10 T30N R16W County: San Juan Prepared by: Permits West 1" = 2000

NA



Drilling Program

1. <u>Formation Tops</u>

The estimated tops of important geologic markers are:

Formation Name	GL Depth	KB Depth	Subsea Elevation
Pt Lookout	000'	000'	+5,520'
Upper Mancos Shale	200'	200'	+5,320'
Upper Gallup Ss	1,470'	1,470'	+4,050'
Lower Gallup	1,580'	1,580'	+3,940'
Lower Mancos	1,650'	1,650'	+3,810'
Total Depth (TD)*	1,800'	1,800'	+3,950'
* all elevations reflect	the ungraded gro	and level of 5 520	1 3,750

2. <u>Notable Zones</u>

Oil & Gas Zones	Water Zones	Minerals Zones
Upper Gallup (1,470')		

Lower Gallup (1,580')

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.



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 ST&C		320' 1,800'

Surface casing will be cemented to the surface as follows:

- -Break circulation with water
- -Pump $\approx 90 \text{ sx (107 cu ft) of Class B+ 2% CaCl}_2$
- -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 $\approx 105 \mathrm{sx}$ ($\approx 409 \mathrm{~cu}$ ft) Class B cement with 3% chemical extender and $1/4 \mathrm{\#/sx}$ cellophane flakes followed by $\approx 80 \mathrm{sx}$ (94 cu ft) Class B cement with 2% CaCl₂ +1/4 $\mathrm{\#/sx}$ 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 be 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 $\approx 400 \mathrm{psi}$.

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.

