SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

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

UNITED STATES DEPARTMENT OF THE INTERIOR

5. LEASE DESIGNATION AND SERIAL NO.

	BUREAU O	F LAND MANAG	EMEN.	τ			NM-	0772	.83
APPLI	CATION FOR F				EN	N	6. IF INDIAN	Surfac	e Only)
DRI	LL 🗹-	DEEPEN [- 673	500 27 7	3:3	7			lögback
	AS OTHER	· · · · · · · · · · · · · · · · · · ·	SIN ZOI	IE V	MULTÍPL ZONE	No	8. FARM OR LEA	Hog	back Unit
<i></i>	s & Energy,	Inc. (281) 931	-3800)			9. API WELL NO		-045-3038
ADDRESS AND TELEPHONE NO.	uston Pkwy E.,	Suite 500, H	oust	on, TX, Z	7706()	10. FIELD AS	shoe	Gallup
At surface	1408'	L & 2310'		•			11. SEC., T., AND SUE		
At proposed prod. 201	^{le} Same						11-30r	1-16w	NMPM
	AND DIRECTION FROM NE		OFFICE	•			12. COUNTY		13. STATE
5 air miles N	of Waterflow	v, NM	16. No.	OF ACRES IN L	EASE	17. No.	San Ju		INIM
PROPERTY OR LEASE ! (Also to nearest dr)	r LINE, FT. g. unit line, if any)	10'	·	4	0.0		HIS WELL	40	SE/4 5 11/4
S. DISTANCE FROM PROD TO NEAREST WELL, I OR APPLIED FOR, ON TH	IS LEASE, FT.	586'	19. PR	2,3	50 <u>'</u> ~	20. ROTA		otary	
1. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)	5,427 <u>'</u> ung	rade	d ground			Up	on A	pproval
3.	, "	PROPOSED CASI	NG AND	CEMENTING P	ROGRAN	1			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO	тос	SETTING DE	РТН			Y OF CEME	
8-3/4"	7" (J-55)	20#			320' 350' –				& to surface = & to surface
	m closest leas	20 8 7 1 8 30 x	312	JUL 2001 ECEIVED LOON. DIV DIST. 3	STATE BY			, BLM (8	& OCD), Jacks
IN ABOVE SPACE DESCRI	BE PROPOSED PROGRAM	: If proposal is to deepen ations and measured and	, give data true vertic	a on present produ	ctive zone wout preve	and propos enter prograi	ed new producti m, if any.	ve zone. If	proposal is to drill o
SIGNED ACCOUNTS	n Cat	,		nsultant				9-	22-00
	deral or State office use)				6/	129/0,	<i>(</i>	
PERMIT NO.	es not warrant or certify that th	e applicant holds legal or	-mitable t	APPROVAL DATE		lease which	would entitle the	applicant to	conduct operations the
Application approval doc CONDITIONS OF APPROV		o approxim notes regal Of t			•				. 9 7001
/a	/ Lee Otteni	~- -	•				DATE _		
APPROVED BY		*See Instr		On Reverse					
		Jee instr	OCHORS	OIL VELEISE	J. J.				

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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

Submit to Appropriate District Office

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

OIL CONSERVATION DIVISION

State Lease - 4 Copies Fee Lease - 3 Copies

1000 Rio Brazos Rd., Aztec, N.M. 87410 DISTRICT IV PO Box 2088, Santa Fe, NM 87504-2088

30-N

DISTRICT III

UL or lot no.

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P.O. Box 2088 (5) Santa Fe, NM 87504-2088

☐ AMENDED REPORT

SAN JUAN

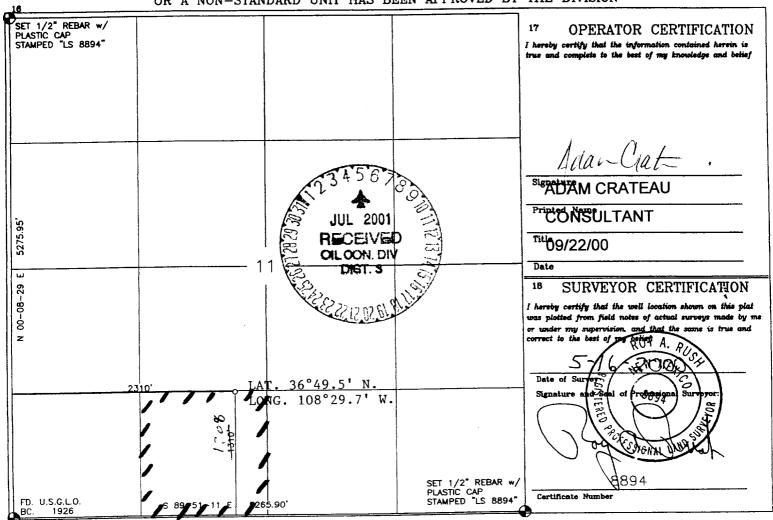
WELL LOCATION AND ACREAGE DEDICATION PLAT

20 Mmber 3038	32870 Code	h H	HORSESHOE GALLÜP ^{I Name}			
Property Code -016547		Property N.E.H.			• #	71
171052	PLAY	*Operator Name PLAYA MINERALS and ENERGY, INC.				Elevation 5427
		¹⁰ Surface				
L or lot no. Section Town	nip Range Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

SOUTH 2310 WEST 16-W

¹¹ Bottom Hole Location If Different From Surface North/South line | Feet from the East/West line County Feet from the Lot Idn Section Township UL or lot no. 15 Order No. 14 Consolidation Code Joint or Infill 12 Dedicated Acres

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:

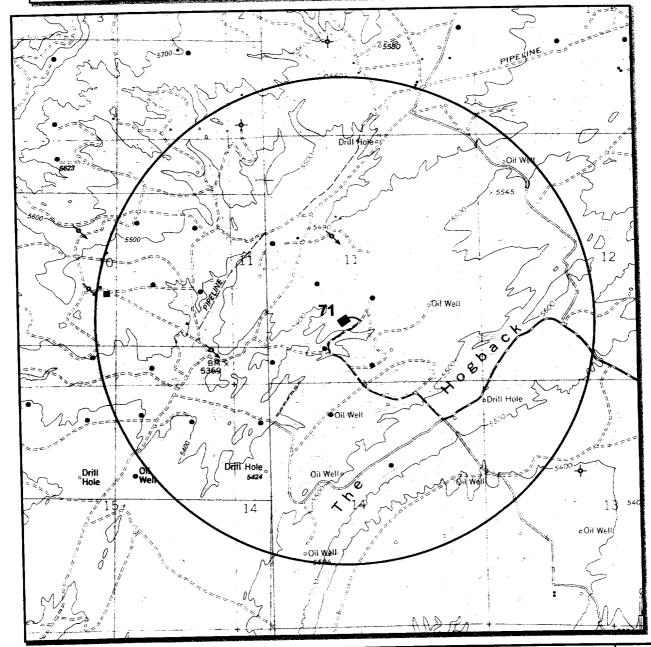
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Water Supply Well:

Plugged & Abandoned Well:

Access:

Access:



Central/Playa: NEHU 71 Existing Wells, Access

Legal: NE SW Sec 11 T30N R16W County: San Juan Prepared by: Permits West 1" = 2000'

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Plava Minerals & Energy, Inc. Northeast Hogback Unit 71 San Juan County, NM

Drilling Program

1. Formation Tops

The estimated tops of important geologic markers are:

Formation Name	GL Depth	KB Depth	h Subsea Elevation		
Cliffhouse Ss	000'	000'	+5,420'		
Pt Lookout	370'	370'	+5,050'		
Upper Mancos Shale	690'	690'	+4,730'		
Upper Gallup Ss	2,000'	2,000'	+3,420'		
Lower Gallup	2,110'	2,110'	+3,310'		
Lower Mancos	2,180'	2,180'	+3,240'		
Total Depth (TD)*	2,350'	2,350'	+3,150'		

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

2. Notable Zones

Oil & Gas Zones	Water Zones Cliffhouse (000')	Minerals Zones
Upper Gallup (2,000') Lower Gallup (2,110')	, .	

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.



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Playa Minerals & Energy, Inc. Northeast Hogback Unit 71 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 9.5		ST&C ST&C		320' 2,350'

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 $\approx 105 \mathrm{sx}$ ($\approx 409 \mathrm{~cu}$ ft) Class B cement with 3% chemical extender and 1/4#/sx cellophane flakes followed by $\approx 80 \mathrm{sx}$ (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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