UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

BECEIVED)

a.	Type of Work	5. Lease Number
	DRILL	NMNM-4453
	(E) 1 19 13 C	Unit Reporting Number Farmington
b.	Type of Well GAS MAR 200	6. If Indian, All. or Tribe
	GAS WAH 200	4
•	Maria and Andreas	
	HESCURCES OIL & GAS COMPANY (LB	
	THE CONTROL OF A GAB COMPANY AS	18497
	Address & Phone No. of Operator	8. Farm or Lease Name
_	PO Box 4289, Farmington, NM 87499	Carson SRC
		9. Well Number
	(505) 326-9700	101S
١.	Location of Well	10. Field, Pool, Wildcat
	2420' FNL, 340' FWL	Basin Fruitland Coal
	7	11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 50.32, Longitude 107° 18.57	Sec. 1, T-30-N, R-5-W
		API # 30-039- 27571
4.	Distance in Miles from Nearest Town	12. County 13. State
74	26 miles from Gobernador	Rio Arriba NM
5.	Distance from Proposed Location to Nearest Property or Leas	e Line
	340'	
6,	Acres in Lease	17. Acres Assigned to Well
		267.14 N/2
8.	Distance from Proposed Location to Nearest Well, Drlg, Comp	l or Applied for on this Lease
Ο.	20'	i, or Applied for oil tills Ecase
9.	Proposed Depth	20. Rotary or Cable Tools
	3500 ′	Rotary
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	6574' GR	
3.	Proposed Casing and Cementing Program	
.J.	See Operations Plan attached	
	see operacions fran accached	
24.	Authorized by: Manage Staff Specialist	_/2-22-03
	Authorized by: Acy Athanas Senior Staff Specialist	Date
	<u> </u>	
'EKM	IT NO. APPROVAL	
\PPR	OVED BYTITLE	DATE NAM STAD
• • •	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
raha	eological Report attached	104 FOR NSL
	tened and Endangered Species Report attached	

DRILLING UM - THE LA AUTHORIZED ARE SUBJECT TO COMPENANCE WITH ATTACHED "GENERAL REQUIREMENTS".

NO HPÁ NOTIFICATION REQUIRED PER ORDER R-8767F

NMOCD

This action is subject to technical and procedural review pursuant to 43 CFR 3165.5 and appeal pursuant to 43 CFR 3165.4

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico
Energy, Minerals & Natural Resources Department

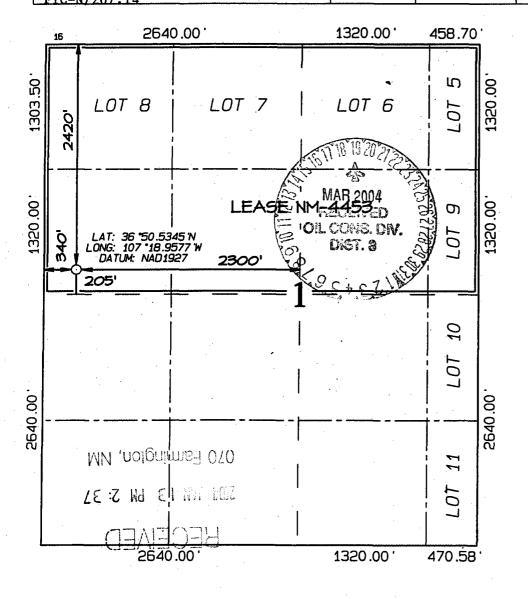
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back nit to Appropriate District Office

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number Pool Code			de e	³Pool Name					
30-039-	275	77	71.62	29	Bas	in Fruitland	Coa1		
⁴ Property Code			*Propert	*Property Name			*Well Number		
18492			CARSON SRC			101S			
'OGRID No.			*Operato	*Operator Name			*Elevation		
14538 BURLINGTON R				ESOURCES (DIL & GAS CO	MPANY, LP		6574	
					¹⁰ Surface	Location			
UL or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	1	30N	5W		2420	NORTH	340	WEST	RIO ARRIBA
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West line	County
] .•		•					·	
Dedicated Acres				·	³³ Joint or Infill	¹⁴ Consolidation Code	²⁵ Order No.	·	
FTC-N/26	7 14							•	



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

OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
Signature Oltmanns
Nancy Oltmanns
Printed Name Senior Staff Specialist
Title 12 32 - 03
Date
SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Survey Date: OCTOBER 17, 2003
Signature and Seal of Professional Surveyor
MEATICO EDWARD SE SE STOWN OF SESTIONS OF
JASON C. EDWARDS Certificate Number 15269

OPERATIONS PLAN

Well Name: Carson SRC #101S

Location: 2420' FNL, 340' FWL, Section 1, T-30-N, R-5-W

Latitude 36° 50.32, Longitude 107° 18.57

Rio Arriba County, NM

Formation: Basin Fruitland Coal

Elevation: 6574' GR

Formation:	Top	Bottom	Contents
Surface Ojo Alamo	San Jose 2650'	2650' 2860'	aquifer
Kirtland Fruitland	2860' 2931'	2931' 3276'	gas gas
Intermediate casing Top of Coal	3226′ 3276 ′	3356 ′	
Base of Coal Pictured Cliffs Total Depth	3356' 3361' 3441 '		

Logging Program:

Open hole - GR/RHOB from TD to 3226' Mud log - TD to 3226'

Coring Program: none

Mud Program:

Interval	Туре	Weight	Vis.	Fluid Loss
0- 120'	Spud/Air/Air Mist	8.4 - 9.0	40-50	no control
120-3226'	Non-dispersed	8.4-9.0	30-60	no control
3226-3441'	Air/Mist			no control

Casing Program (as listed, the equivalent, or better):

Hole Size	Depth In	nterval	Csg.Size	Wt.	Grade
12 1/4"	0'-	120'	9 5/8"	32.3#	H-40
8 3/4"	0'-	3226'	7"	20.0#	J-55
6 1/4"	3226! -	3441'	open hol	le	

Alternate Casing Program (as listed, the equivalent, or better):

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3226'	7"	20.0#	J-55
6 1/4"	3126' - 3441'	5 ½"	15.5#	J-55

Tubing Program:

0' - 3441' 2 3/8" 4.7# J-55

Float Equipment: 9 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing - guide shoe and self-fill float collar. Standard centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2924'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 9 5/8" x 7" x 2 3/8" x 11" 3000 psi xmas tree assembly.

Cementing:

9 5/8" surface casing -

Pre-Set Drilled Cement with 23 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (37 cu ft of slurry, bring cement to surface) Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

Conventionally Drilled:

Cement with 80 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. (113 cu ft of slurry, 200% excess, bring cement to surface) Wait on cement for 8 hrs for conventionally set holes before pressure tessting or drilling out from under surface.

Waive the 6 hours WOC in lieu of 4 hours prior to MU of BOPE. See BAM General Requirements

7" intermediate casing - lead w/283 sacks Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail with 90 sacks Type III cement with 1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (727 cu.ft., 50% excess to circulate to surface).

5 1/2" liner - will not be cemented if run.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

BOP and tests:

Surface to intermediate TD - 11" 2000 psi (minimum) double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test BOP and casing to 600 psi/30 min.

Intermediate TD to Total Depth - 7 1/6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test BOP and casing to 1500 psi for 30 minutes; all pipe rams and casing to 1500 psi for 30 minutes each.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

- The Fruitland Coal formation will be completed.
- Anticipated pore pressure for the Fruitland is 500 psi.
- This gas is dedicated.
- The north half of Section 1 is dedicated to this well.

Drilling Engineer: JumpenmcCourty Date: 12-22-2003