Form 3160-3 (July 1992)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.

Jicarilla Contract 152

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

				PEN	
a. TYPE OF WORK	ILL X	DEEPEN [7. UNIT AGREEMENT NAME $9/9<$
h. TYPE OF WELL					2173
OIL OIL	GAS X OTHER		SINGLE MUT	TIPLE X	8. FARM OR LEASE NAME, WELL NO. Jicarilla West 8M
NAME OF OPERATOR			200	متروال	3.0
NERGEN RESOURCES	CORPORATION		372 (3)	4252	9. API WELL NO.
ADDRESS AND TELEPHONE		111 07401			30-037-26
	lighway, Farmington,		JAN	2000	No. FIELD AND POOL, OR WILDCAT
. LOCATION OF WELL (Repo At surface	ort location clearly and in accord	ance with any State requ	RECE OIL GO		A Branco MV/Basini BK
990' FSL, 820' FE	:L		S OIL CO	13 (J. 15)	11. SEC., T., R., M., OR BLK.
At proposed prod. zone			Dis	7 3 N	Sec. 6, T26N, R5W, N.M.
A DISTANCE DE MILES AND	DIRECTION FROM NEAREST TOW	LV OB BOCT OFFICE*	- \text{\tin}\text{\tex{\tex	 	12. COUNTY OR PARISH 13. STATE
	st of Lindrith. New		20110	ر دیگر	Rio Arriba NM
5. DISTANCE FROM PROPOSI			NO. OF ACRES IN LEASE	NO. OF	ACRES ASSIGNED = 319.66
LOCATION TO NEAREST PROPERTY OR LEASE LIN	E, FT. OOD!		2557.76'	то тніз	WELL (220 /220
(Also to nearest drig. unit (B. DISTANCE FROM PROPOSI	tine if any) OZU	10	PROPOSED DEPTH	20 ROTARS	Y OR CABLE TOOLS
TO NEAREST WELL, DRIL	LING, COMPLETED,	1:3	7960'	Rota	
OR APPLIED FOR, ON THIS I. ELEVATIONS (Show whether)			/900		22. APPROX. DATE WORK WILL START*
•	mer Dr,R1, GR, etc.)				
6948' GL			<u> </u>		
3.	1	PROPOSED CASING A	ND CEMENTING PROGRAM		
SIZE OF HOLE	GRADE_SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
12 1/4	9 5/8	36 #	200	130 cu	ı. ft. to circ.
14 1/4	9 3/6	3011			
	7	20 & 23#	3895	878 cu	ı. ft. to circ.
8 3/4 6 1/4 An applicatio	7 4 1/2 on with NMOCD is be	20 & 23# 11.6# ing submitted	· · · · · · · · · · · · · · · · · · ·	626 cu	u. ft. to circ. u. ft. to circ. to interme tively perforate and sand
8 3/4 6 1/4 An application water fracture NOTE: The	7 4 1/2 on with NMOCD is being the Mesaverde and HIS IS A PIPELINE R	20 & 23# 11.6# ing submitted d Dakota. Thi	3895 7960 to downhole comming s gas is dedicated.	le. Selec	i. ft. to circ. to interme
8 3/4 6 1/4 An application water fracture NOTE: The state of the sta	7 4 1/2 on with NMOCD is being the Mesaverde and HIS IS A PIPELINE R	20 & 23# 11.6# ing submitted d Dakota. Thi .O.W. EXPEDITE	3895 7960 to downhole comming s gas is dedicated.	e zone and propos	tively perforate and sand
8 3/4 6 1/4 An application water fracture NOTE: The second of the second seco	7 4 1/2 on with NMOCD is being the Mesaverde and HIS IS A PIPELINE R BETROPOSED PROGRAM: reinspredate on subsurface location	20 & 23# 11.6# ing submitted d Dakota. Thi .O.W. EXPEDITE	3895 7960 to downhole comming s gas is dedicated. D APD.	e zone and propos	tively perforate and sand sed new productive zone. If proposal is to d n, if any.
8 3/4 6 1/4 An application water fracture NOTE: The state of the sta	7 4 1/2 on with NMOCD is being the Mesaverde and HIS IS A PIPELINE R BETROPOSED PROGRAM: reinspredate on subsurface location	20 & 23# 11.6# ing submitted d Dakota. Thi .O.W. EXPEDITE	3895 7960 to downhole comming s gas is dedicated. D APD.	e zone and propos	tively perforate and sand sed new productive zone. If proposal is to d n, if any.

*See Instructions On Reverse Side

District I PO 5cm 1980, Hopps, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised February 21, 1994 Instructions on back roomiate District Office State Lease - 4 Cooles

District II PO Drawer GO, Antesia, NM 85211-0719

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Fae Lease - 3 Cobies

District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

76-039-7137	72319-71599	Blanco Mesavero	Pool Nate Basin Da	
*Property Code		Procenty Name CARILLA WEST		*well Number 84
'0GAID No. 152928		Coerator Name SCURCES CORPORAT	ION	'Elevation 6948
u. on lot no. Section Towns		face Location	Feet from the	East/west line County

RIO EAST SOUTH 820 6 26N 5W 530 ABRIBA 11 Bottom Hole Location If Different From Surface Feet from the ويعرف North/South line East/mest line Feet the the UL or lot no. Section Township 320/320 25 Junger 40. Dupint on Infill 14 Consolidation Code

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

:5	1355.30	1363.55	2727	7.12	17 OPERATOR CERTIFICATION Thereby centify that the information contained herein is the land condition to the best of any infollogic and belief
1336.50	LOT 4	LOT 3	LOT 2	₩ LOT 1	and land land
1335.84	LOT 5		JAN PRESIDENT	. 47. 57 9 9 5 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	Signature Gary Brink Printed Name Production Superintendant Title 10 27 99 Date
1.68	LOT 6		We k	01.6.8.6.00	SURVEYOR CERTIFICATION I hereby centify that the well location shown on this plats was plotted from field notes of actual surveys made by me or under my succession and that the same is true and correct to the best of my belief. SEPTEMBER 22. 1999 Date of Sunvey ED Signature and Seal of the best ma.
7671	LOT 7	5278	. 02 '	0 820'	Date of Survey C. EDVA Signature and Seal of Co. EDVA MEXICO Zentificate Number 5857

OPERATIONS PLAN

WELL NAME: Jicarilla West #8M

LOCATION: 990' FSL, 820' FEL, Section 6, T26N, R5W, Rio Arriba, New Mexico

FIELD: Blanco MV/Basin Dakota ELEVATION: 6948'

FORMATION TOPS:

Surface	San Jose	Cliff House	5225
Ojo Alamo	2845	Menefee	5320
Kirtland	3075	Point Lookout	5735
Fruitland	3360 ,	Gallup	6685
Pictured Cliffs	3535	Greenhorn	7655
Lewis	3695	Graneros	7715
Huerfanito Be	nonite 4015	Dakota	7740
		Total Depth	7960

LOGGING PROGRAM:

Open Hole Logs:

Surface to intermediate: HRI/SP/GR; CNT/LDT/MLT Inter TD to total depth: Temp/HRI/CNT, LDT/GR

Mud Logs:

200' above Ojo Alamo to total depth

Coring:

None

Natural Gauges:

Every 500' from intermediate TD to total depth

<u>MUD PROGRAM</u>: Fresh water low solids mud from surface to intermediate TD. Air/mist from intermediate casing point to total depth.

CASING PROGRAM:

HOLE SIZE	<u>DEPTH</u>	CSG SIZE	<u>WT.</u>	<u>GRADE</u>
12 1/4"	200'	9 5/8"	36#	K-55
8 3/4"	3895'	7"	23#	K-55
6 1/4"	7960'	4 1/2"	11.6#	K-55

TUBING PROGRAM:

7900' 2 3/8 4.7# J-55

WELLHEAD: 11" 3000 x 9 5/8" casing head. 11" 3000 x 11" 3000 spool. 11" 5000 x 7 1/16" 5000 xmas tree.

BOP SPECIFICATIONS:

An 11" 2000 psi minimum double gate BOP stack (Figure 1) will be used following nipple up of casing head. During air drilling operations, a Shaffer Type 50 or equivalent rotating head will be installed on top of the stack. A 2" nominal, 2000 psi minimum choke manifold will be used.

CEMENTING:

9 5/8 surface casing - Cement with 110 sxs Class B Cement with 1/4" Flocele/sx and 2% calcium chloride (130 cu. ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing to 600# for 30 minutes.

7" intermediate casing - cement with 390 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and 1/4# flocele/sk. Tail with 100 sks Class B w/2% calcium chloride, 10% gilsonite and 1/4# flocele/sk. (878 cu. Ft. of slurry, 50% excess to circulate to surface). WOC 12 hrs. If cement does not circulate, run temperature survey in 8 hrs. to determine TOC. Test casing to 1200 psi for 30 minutes.

Cement nose guide shoe on bottom with a self-fill insert float valve on top of shoe joint. 8 bow spring centralizers spaced every 2nd joint off bottom. Two turbolating centralizers at the base of the Ojo Alamo.

4 1/2 Production Liner

Cement with 495 sks 50/50 poz with 2% gel, 5 PPS gilsonite, .4% halad - 9 and 1/4# flocele/sk (626 cu. ft., 50% excess to circulate liner top). WOC 18 hrs prior to completion.

Cement nose guide shoe on bottom with float collar on top of shoe joint. Liner hanger will have a neopreme packoff on top.

OTHER INFORMATION:

- 1) The Blanco Mesaverde and Basin Dakota will be completed and downhole commingled.
- 2) No abnormal temperatures or pressures are anticipated.
- 3) Anticipated pore pressure for the Mesa Verde is 1100 and the Dakota 1500 psi.
- 4) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control.
- 5) This gas is dedicated.

