UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Sundry Noti	ces and Report	s on Wells		
			5.	Lease Number
1. Type of Well GAS			6.	If Indian, All. or Tribe Name
			7.	Unit Agreement Name
2. Name of Operator				
BURLINGTON				
RESOURCES OIL 8	GAS COMPANY		8.	Well Name & Number
3. Address & Phone No. of Operat	or		ο.	Shults Federal #1E
PO Box 4289, Farmington, NM	87499 (505) 3	26-9700	9.	API Well No. 30-045-30778
4. Location of Well, Footage, Se	c., T, R, M		10.	Field and Pool
1450'FSL, 950'FWL, Sec.1, T-2	9-N, R-11-W, N	MPM		Otero Cha/Blanco MV, Basin Dakota
			11.	County and State San Juan Co, NM
12. CHECK APPROPRIATE BOX TO IND	CATE NATURE O	F NOTICE, REPORT	, OTHER	DATA
Type of Submission	Ту	pe of Action		
X Notice of Intent	Abandonme			
Subsequent Report	Recomplet Plugging	Back Non-F	onstruc Outine	Fracturing
	Casing Re	pair Water	Shut o	ff
Final Abandonment	Altering _X_ Other -	Casing Conve	ersion t	o Injection
It is intended to add the The operations plan will plat is attached.	Mesaverde and	Chacra formation	ns to th attached	e subject well. . A revised C-102
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14. I hereby certify that the	foregoing is	true and correct	•	
signed Jagay Cale	Title	Regulatory Super	visor Da	ate 10/29/01 TLW
(This space for Federal or Stat	e Office use) Title		Date	11/8/01
CONDITION OF APPROVAL, if any: Titl: 18 U.S.C. Section 1001, makes it a crime for a United States any false, fictitious or fraudulent st	any person knowingly and atements or representat	willfully to make to any coions as to any matter with	lepartment or n its jurisd	agency of the iction.

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

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

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

DISTRIC" IV PO Box 2088, Santa Fe, NM 87504-2088

HECD / SAN JUAN

State of New Mexico Energy, Minerals & Natural Resources Departm

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

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	^a Pool Name		
30045-30778	82329/72319/71599	Otero Chacra/Blanco Mesaverd	e/Basin Dakota	
⁴ Property Code	³ Property Name			
	SHULT	'S FEDERAL	1E	
7 OGRID No.	*0p	erator Name	⁸ Elevation	
14538	Burlington Resources	Oil & Gas Company, LP	5887'	

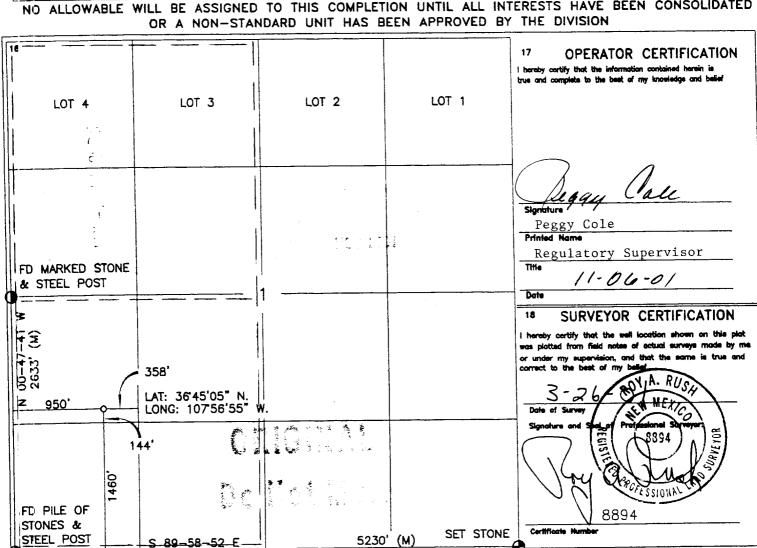
¹⁰ Surface Location

LIL or let no.	Section 1	Township 29-N	Range 11—W	Lot Idn	Feet from the 1460'	North/South fine SOUTH	Feet from the 950'	East/West line WEST	County SAN JUAN	
L	L	·	11 - 11		1 1.	16 D*66	C (•

¹¹ Rottom Hole Location If Different From Surface

			DOM	סוטוו ונוכ	Localion	II Different t	TOTAL SUITURE		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Declicated Acres	<u> </u>	13 3	oint or Infili		14 Consolidation C	ode	18 Order No.		
Chacra: S	W/160 305.02								

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



OPERATIONS PLAN

Well Name: Shults Federal #1E

1460'FSL, 950'FWL, Sec 1, T-29-N, R-11-W Location:

San Juan County, NM

Latitude 36° 45.05, Longitude 107° 56.55

Formation: Otero Chacra/Blanco Mesaverde/Basin Dakota

Elevation: 5887'GL

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	929'	
Ojo Alamo	929'	1044′	aquifer
Kirtland	1044'	1639 '	gas
Fruitland	1639'	2224'	gas
Pictured Cliffs	2224 '	2339'	gas
Lewis	2339'	2859'	gas
Intermediate TD	2439'		
Mesa Verde	2859 ′	3234 ′	gas
Chacra	3234 ′	3899 '	gas
Massive Cliff House	3899'	3944'	gas
Menefee	3944'	4549 ′	gas
Massive Point Lookout	4549'	4919'	gas
Mancos	4919'	5769 '	gas
Gallup	5769 ′	6511 ′	gas
Greenhorn	6511'	6570'	gas
Graneros	6570'	6635'	gas
Dakota	6635 ′	7005 ′	gas
Morrison	7005 ′		gas
TD	7050'		

Logging Program:

Cased hole - CBL-CCL-GR - TD to surface

Open hole - Platform Express: DIL/GR from TD to surface, Density

and Neutron Porosity w/RT merged from TD to 2700', Bulk

Density/Correction, Microlog from TD to 2700'

Mudlog - 6000' to TD Cores - none

Mud Program:

<u> </u>				•	
Inte	rval	Type	Weight	<u>Vis.</u>	Fluid Loss
	200'	Spud	8.4-9.0	40-50	no control
200-	2439 ′	LSND	8.4-9.0	30-60	no control
2439-	65851	Air/N2	n/a	n/a	n/a
6585-	7050 ′	LSND	8.4-9.0	30-60	no control

Pit levels will be visually monitored to detect gain or loss of fluid control.

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

Hole Size	Depth Interval	Csg.Size		<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H - 40
8 3/4"	0' - 2439'	7"	20.0#	J-55
6 1/4"	2339' - 7050'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 7050' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 3000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 3000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 3000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 3000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 3000 psi tree assembly.

General ·

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 159 sx Class "B" cement with 1/4# celloflake/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead w/275 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx. Tail w/90 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent (825 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar at 1539'. First stage: cement with 238 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent. Second stage: 202 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx (824 cu.ft., 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 1044'. Two turbolating centralizers at the base of the Ojo Alamo at 1044'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

- 4 1/2" Production Casing -
- Cement to cover minimum of 100' of 4 $1/2" \times 7"$ overlap. Lead with 460 sx 50/50 Class "G" Poz with 5% gel, 0.25# celloflake/sx, 5# gilsonite/sx, 0.1% retardant and 0.25% fluid loss additive, 0.15% dispersant, 0.1% antifoam agent (677 cu.ft.), 40% excess to cement 4 $1/2" \times 7"$ overlap). WOC a minimum of 18 hrs prior to completing.
- 4 1/2" production casing alternative: Lead w/188 sx 9.5 PPG Litecrete Blend w/0.11% dispersant, 0.5% fluid loss. Tail w/174 sx Class G 50/50 poz w/5% gel, 0.25 pps celloflake, 5 pps gilsonite, 0.25% fluid loss, 0.15% dispersant, 0.1% retarder, 0.1% antifoam (725 cu.ft., 50% excess to cement $4 \frac{1}{2}$ " x 7" overlap).

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

Cement float shoe on bottom with float collar spaced on top of float shoe.

- Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" cverlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.
- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Gas/Mist Drilling):

The following equipment will be operational while gas/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- Deduster equipment will be utilized.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

The Dakota, Chacra, and Mesa Verde formations will be completed and commingled.

No abnormal temperatures or hazards are anticipated.

Anticipated pore pressures are as follows:

Fruitland Coal 300 psi Pictured Cliffs 600 psi Mesa Verde 700 psi Dakota 2500 psi

• Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.

• The southwest quarter of Section 1 is dedicated to the Chacra, the west half of Section 1 is dedicated to the Mesa Verde and Dakota in this well.

Jumourl Nov. 2, 200/

• This gas is dedicated.

Alternative Intermediate Lead Slurry

Dowell-

Class G: D49(50:50) w/ 2.5% D79, 2% S1, 10pps D24, .5pps D29, .2%D46

where: D49-TXI Light weight Cement

D79-Sodium Metasilicate S1-Calcium Chloride

D24-Gilsonite

D46-Antifoam Agent

Properties-

Density:11.4 lb/gal Yield:2.58 cu ft./sk Water:14.55 gal/sk

Thick Time 70 b.c.(deg F): 4:06(101)

Free Water:0

Fluid Loss:462ml/30 min CS(crush)@24hr:394 CS(crush)@48hr:550

Halliburton-

Class H 47#/sk, 37#/sk Blended Silicalite, 3% Bentonite, 4% Calcium Chloride

Properties-

Density:11.4 lb/gal Yield:2.42 cu.ft./sk Water:14.02 gal/sk

Thick Time(70 bc): 11:00+ Fluid Loss: 702 cc/30min

Free Water: 0%

Compressive Strength (@25:19):500 Compressive Strength (@48:00):630 BURLINGTON RESOURCES

Burlington Resources

3000 pei System Drilling Rig

REG FLOOR

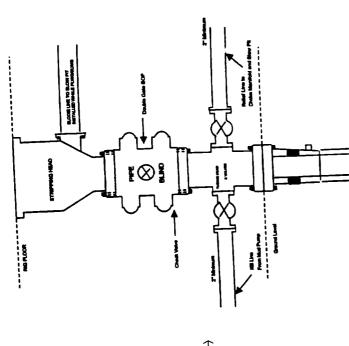
NOTATING HEAD: -

T FILLUP UNE

Drilling Rig Choke Manifold Configuration 3000 psi System

PLOW NEPLEMENDOR LINE

DOUBLE GATE



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ADJUSTABLE OR POSITIVE CHOICE

GROUND LEVEL

pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of Minimum BOP installation for all Completion/Workover Operations. 7-1/16" bore, 3000 psi minimum workling pressure or greater excluding 500 psi stripping head. the BOP. All BOP equipment is 3000 psi working

Figure #3

Figure #1

Figure #2

Choke manifold installation from Surface Ceshig Point to Total Depth. 3,000psi working pressure

equipment with two chokes.

4-20-01

4-20-01