UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

		N FOR PERMIT TO DRILL, DEE	5. Lease Number	
la.	Type of Work DRILL	JUN 2006	s. Lease Number sr-078103 Unit Reporting Nu	(
		PE RE	Sint neporting ru	
1b.	Type of Well	E OILC DIV. C	 6. If Indian, All. or Tr 	ibe
	GAS	DIST. 3	3 070 0.00 3	
2.	Operator BURLINGTON	Service Servic	7. Unit Agreement N	ame
	RESOURCES Oil & G	as Company	Huerfano Unit	
3.	Address & Phone No. of Opera		8. Farm or Lease Na	me
	PO Box 4289, Farming	gton, NM 87499	0.347-11.04	
	(505) 326-9700		9. Well Number 135F	
4.	Location of Well		10. Field, Pool, Wilde	eat
	Unit B (NWNE), 660' F	NL, 2285' FEL	Basin Dakota	
			11. Sec., Twn, Rge, M	ler. (NMPM)
	Latitude 36° 28.7442 Longitude 107° 45.422	_	Sec. 23, T26N,	R9W
	Longitude 107° 45.422	4	BAPI # 30-045- 33	785
14.	Distance in Miles from Neares 29.7 mi. Bloomfield, 1		12. County San Juan	13. State
15.	Distance from Proposed Local	tion to Nearest Property or Lease L	ine	
16.	Acres in Lease		17. Acres Assigned 8 320.0 ac N2	
18.		tion to Nearest Well, Drlg, Compl, o	r Applied for on this Lease	
19.	920'- Huerfano Unit #! Proposed Depth	523	20. Rotary or Cable 1	Toole
13.	6638 '		Rotary	0019
21.	Elevations (DF, FT, GR, Etc.)		22. Approx. Date Wo	ork will Start
23.	Proposed Casing and Cement			
	See Operations Plan	attached		
24.	Authorized by:	nda Janeli.	la-6	-06
	• —	y Analyst	Date	7
PERM	IT NO. All	/ APPROVAL	DATE	
	12/1/2016	· ·		6/21
APPR	OVED BY SOME TO THE OWNER OF THE OWNER OWNER OF THE OWNER OWN	eous () TITLE ACK	T DATE	0/-3/

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

NWOCD



DISTRICT 1 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

OIL CONSERVATION DIVISION 2040 South Pacheco Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV

DISTRICT III

2040 South Pacheco, Santa Fe, NM 87505

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

2040 South Pacheco
Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code 71599 Basin Dakota Pool Name

'API Number 30-045-33785		*Pool Code 71599	Basin Dakota Pool Name	
Property Code 7139			operty Name	• Well Number 135F
OGRID No. 14538		•	erator Name S OIL AND GAS COMPANY LP	Elevation 6370

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	23	26-N	9-W		660'	NORTH	2285'	EAST	SAN JUAN
	11 Bottom Hole Location If Different From Surface								
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Bast/West line	County
¹² Dedicated Acre	•	<u> </u>	¹⁸ Joint or	infill	¹⁴ Consolidation C	Code	¹⁶ Order No.		<u> </u>
r	12 320	DK]				

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

16		41' 57' ¥ 10.26'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
	LAT: 36'28.7442' N. LONG: 107'45.4222' W. NAD 1927 LAT: 36'28'44.7" N. LONG: 107'45'27.5" W. NAD 1983	2636.86" E	Signature Amanda Sandoval Printed Name Regulatory Analyst Title 5-18-06 Date 18 SURVEYOR CERTIFICATION I hereby cortify that the well location shown on this plat was plotted from flaid notes of actual surveys made by me or undor my supervision, and that the same is true and correct to the best of my beliaf. Date of Survey Signature gain bow of Footsprouds Surveyor:

Office	State of New Mexico	Form C-103
District I	Energy, Minerals and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		WELL API NO.
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	30-045- 3 7 / X 3 5. Indicate Type of Lease
District III	1220 South St. Francis Dr.	STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
District IV 1220 S. St. Francis Dr., Santa Fe, NM 8750	5	SF-078103
	ES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
1.	TO DRILL OR TO DEEPEN OR PLUG BACK TO A	1
DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS.)	N FOR PERMIT" (FORM C-101) FOR SUCH	Huerfano Unit
1. Type of Well:		8. Well Number
Oil Well Gas Well X	Other	135F
2. Name of Operator	Un one of the court was the	9. OGRID Number
3. Address of Operator	URCES OIL & GAS COMPANY LP	14538 10. Pool name or Wildcat
	EET, FARMINGTON, NM 87402	Basin Dakota
4. Well Location	(a) (, (, d))	2005
Unit Letter B : 6 Section 23	60' feet from the North line and Township 26N Rng 9W	2285' feet from the <u>East</u> line NMPM County San Juan
	Elevation (Show whether DR, RKB, RT, GR, etc.)	
	6370'	
Pit or Below-grade Tank Application	or Closure	
Pit type New Drill Depth to Groundwa		>1000' Distance from nearest surface water >1000'
Pit Liner Thickness: N/A	mil Below-Grade Tank: Volume	bbls; Construction Material
	appropriate Box to Indicate Nature of No	· •
NOTICE OF IN	1	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK TEMPORARILY ABANDON	PLUG AND ABANDON REMEDIA CHANGE PLANS COMMEN	L WORK ALTERING CASING CE DRILLING OPNS. P AND A
PULL OR ALTER CASING		CEMENT JOB
OTHER:	.:II B:4 V OTHER:	<u>~</u>
OTHER: New Di		rive pertinent dates, including estimated date
13. Describe proposed or complete	orill Pit d operations. (Clearly state all pertinent details, and a SEE RULE 1103. For Multiple Completions: Atta	
13. Describe proposed or complete	d operations. (Clearly state all pertinent details, and	
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RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE). BLOW PIT: OVERFLOW PIPE 4' ABOVE BOTTOM OF BLOW PIT.

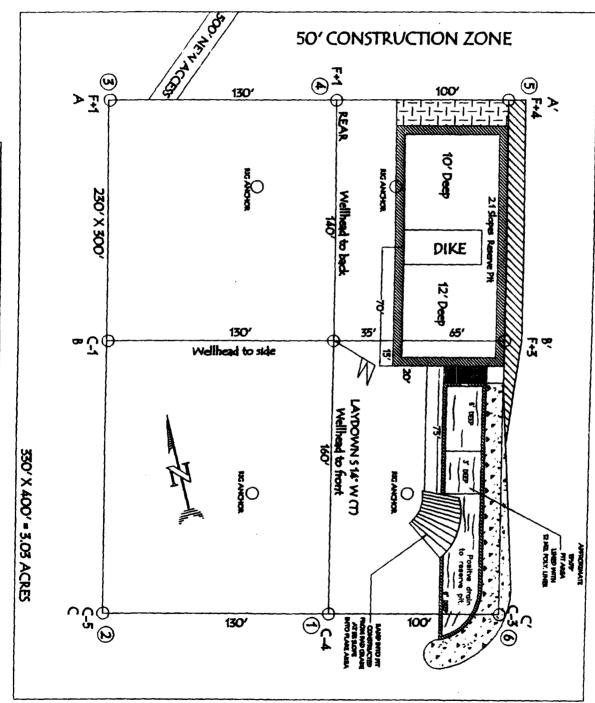
36' 228.7442'N

LONGITUPE:

9

45.4222W NAD27

GROUND ELEVATION: 6370 MAY 3, 2006

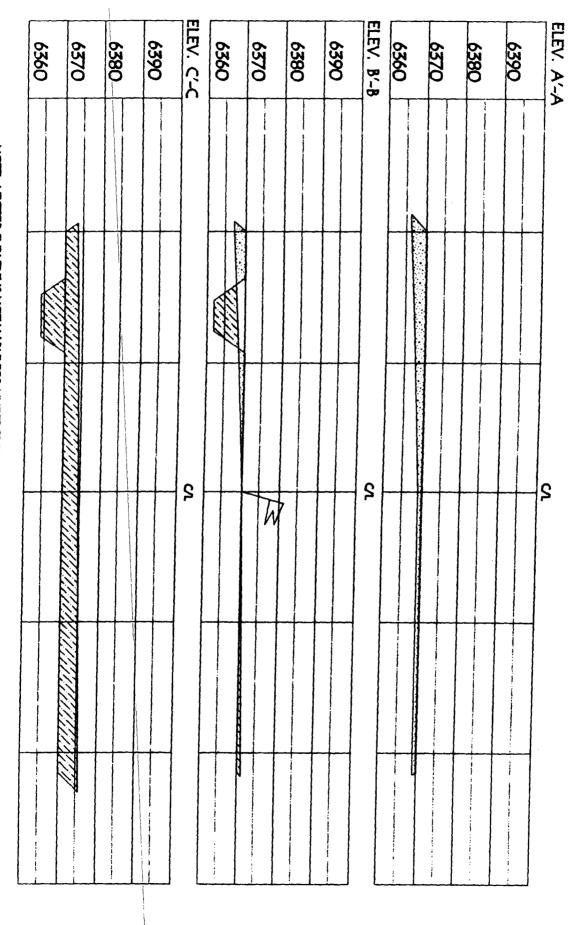


NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

BURLINGTON RESOURCES OIL & GAS COMPANY LP HUERFANO UNIT 135F, 660' FNL & 2285' FEL SECTION 23, T-26- N, R-9-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6370', DATE: MAY 3, 2006



CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

OPERATIONS PLAN

Well Name: Huerfano Unit #135F

Location: 660'FNL, 2285' FEL, Section 23, T-26-N, R-9-W

San Juan County, New Mexico

Latitude 36° 28.7442', Longitude 107° 45.4222'

Formation: Basin Dakota

Elevation: 6370'GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	1279'	
Ojo Alamo	1279′	1347'	aquifer
Kirtland	1347'	1797'	gas
Fruitland	1797′	2022'	gas
Pictured Cliffs	2022'	2124'	gas
Lewis	2124'	2442'	
Huerfanito Bentonite	2442'		
Chacra	2902'	3594'	gas
Cliff House	3594'	3689'	gas
Menefee	3689′	4447'	gas
Point Lookout	4447'	4777'	gas
Mancos	4777'	5479 <i>'</i>	
Gallup	5479'	6338′	gas
Greenhorn	6338'	6387'	gas
Graneros	6387'	6410'	gas
Two Wells	6410'	6515′	gas
Paguate	6515′	6581'	gas
Cubero	6581'	6647′	gas
Encinal	6647′	6638′	gas
TD	6638′		

Logging Program:

Mud Logs/Coring/DST -

Mud logs - none Coring - none DST - none

Open hole - none

Cased hole - Gamma Ray - surface to TD

Mud Program:

Interval	Туре	Weight	Vis.	Fluid Loss
0- 320'	Spud MUD/Air/Air Mist	8.4-9.0	40-50	no control
320'- 6638'	LSND	8.4-9.0	30-60	no control

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

Hole Size	Depth Interval	Csg.Size Wt.	Grade
12 1/4"	0' - 320'	8 5/8" 24.0#	J-55
7 7/8"	0' - 6638'	4 1/2" 10.5#	J-55

Tubing Program: 0' - 6638' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, BOPE and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, BOPE and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 2000 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 -

8 5/8" x 4 $\frac{1}{2}$ " x 2 3/8" x 2000 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 drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

8 5/8" surface casing conventionally drilled Cement with 321 sacks Type III cement with 0.25 pps Celloflake, 3% calcium chloride.
(200% excess, bring cement to surface). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60 degrees F. prior to nipple up of BOPE.
Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface.

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

4 1/2" Production Casing Two Stage -

Stage collar set @ 4297'. First Stage: Lead with w/258 sacks Premium Lite HS FM cmt w/0.25 pps celloflake, 0.3% CD-32, 6.25 pps LCM-1 and 1% FL-52. Second Stage: 464 sacks Premium Lite cmt w/3% calcium chloride, 0.4% metasilicate, 0.25 pps celloflake, 5 pps LCM-1 and 0.4% FL-52. (2238 cu ft - 50% excess, circulate to surface, run CBL/temperature survey if cement is not circulated to surface.)

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every fourth joint off bottom, to the base of the Ojo Alamo @ 1347'. Two turbolating centralizers at the base of the Ojo Alamo 1347'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

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

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 (Air/Mist Drilling):

The following equipment will be operational while air/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 bloose 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.

Special Drilling Operations (Air/Mist Drilling):

- 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 formation will be completed.
- 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 below the top of the Pictured Cliffs.
- The north half of Section 23 is dedicated to the Dakota formation.
- This gas is dedicated.



Minimum GOP translation for all Completion-Works Operations. 7-116" born, 2000 pai misimum works preserve dauble gate BOP to be equipped with black pipo roms. A satigating heart to be translated on the to be BOP. At BOP equipment is 2000 pai working preserve or greater excluding 500 pai ettiping head Figure 43.

Figure 23

10-02-1