

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

RECEIVED

1. Type of Well
GAS

DEC 13 2007

5. Lease Number
USA SF-080511
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name

2. Name of Operator

Bureau of Land Management
Farmington Field Office

BURLINGTON

RESOURCES OIL & GAS COMPANY LP

8. Well Name & Number
Harrington 9M

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

9. API Well No.

30-039-30396

4. Location of Well, Footage, Sec., T, R, M

Unit A (NENE), 670' FNL & 815' FEL, Section 31, T27N, R07W, NMPM

10. Field and Pool
Basin Dakota
Blanco Mesaverde
11. County and State
Rio Arriba Co., NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

☒ Notice of Intent☐ Abandonment☐ Change of Plans☒ Other - Change of plans☐ Subsequent Report☐ Recompletion☐ New Construction☐ Final Abandonment☐ Plugging☐ Non-Routine Fracturing☐ Casing Repair☐ Water Shut off☐ Altering Casing☐ Conversion to Injection

13. Describe Proposed or Completed Operations

12/12/07 Burlington Resources wishes to change the surface casing depth & size/cement due to location site is next to a cliff. Plans are to drill to 1000' and set 9-5/8" surface casing. This will require a lighter weight cement so we don't lose cement to the formation when we cement the casing. The compressive strengths for the cement are attached, as well as the revised drilling program. ✓

14. I hereby certify that the foregoing is true and correct.

Signed Tamra Sessions Tamra Sessions Title Regulatory Technician Date 12/12/2007

(This space for Federal or State Office use)

APPROVED BY Troy L. SalvorsTitle Petroleum EngineerDate 12/14/2007

CONDITION OF APPROVAL, if any:

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

NMOCB

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HALLIBURTON

NWA Regional Laboratory, Farmington, NM
(505) 324-3547

FLMM7F24

ConocoPhillips

JOB INFORMATION AND WELL CONDITIONS:

Type of Job:	Pilot Testing	TVD (ft):	1000	BHCT (°F):	80
Well Name:		Surface Temp (°F):	80	Time to Temp (min):	
Well No:		Temp Grad (°F/100ft):	1.10	Initial Pressure (psi):	
Well Location:		BHST (°F):		Final Pressure (psi):	

CEMENT SLURRY INFORMATION:

		Slurry ID:	Fresh Water	NOTES:
Physical Data:	Density	#/gal:	13.5	
	Total Fluid	gal/sk:	5.29	
	Yield	ft³/sk:	1.31	
	City Water	gal/sk:	5.29	
	2% KCl Water	gal/sk:	-	
Composition:	50/50 Type V SJ Poz	81#/sk	47/34	
	Bentonite	%bwoc	1.000	
	Gilsonite	#/sk	5.000	
	CaCl2	%bwoc	2.000	
	Pol-E-Flake	#/sk	0.125	

Test Results:

		Slurry ID:	80°F	NOTES:
Thickening Time:	Time to 50 Bc (hr:min)		1:51	
	Time to 70 Bc (hr:min)		2:31	
	Time to 100 Bc (hr:min)		3:07	
Compressive Strength:	12 hr:		382 psi ✓	

BURLINGTON RESOURCES

Well Name: Harrington 9M
Formation: MV/DK New Drill
Location: T - 27 N R - 7 W Sec.: 31
Footage: 815' FEL & 670' FNL
County: Rio Arriba State: New Mexico
Rig: H&P 282 API #: 30-039-30396
APD/BLM 10/31/07 Lease NMSF-080511
GL: 6,675' OCD Phone #: 334-6178
KB: 6,691' BLM Phone #: 599-8908
TD: 7,478' EST DAYS: 8

Safety:
AFE# WAN.CDR.7196
Network # 10198133
AFE \$530,431
Est. Cost/ft: \$82.50
Like Kind Cost: \$616,935

San Juan Division - Drilling Program

In case of Major Emergency Call 911
Give the following information to Operator:

Well Name: Harrington 9M County: Rio Arriba
State: New Mexico

Latitude (NAD83): 36.53484 degrees Latitude (NAD27): 36 degrees, 32.089862 min
Longitude (NAD83): 107.61033 degrees Longitude (NAD27): 107 degrees, 36.583487 min

From the post office in Blanco, take highway 64 East for 1.5 miles. Turn right at CR 4450 and travel 8.6 miles to 10 mile bridge. Turn right to cross Carizzo Wash. Turn left after crossing wash and continue southeast on main road. Travel 4.0 miles from the 10 mile bridge and follow main road to the right into Stove Canyon and Gould Pass. Continue up Gould Pass. At 7.8 miles from bridge, at the top of the pass, turn right, crossing cattle guard and travel southerly down Naked Lady Hill. Travel 1.4 miles to Y in road, turn left and travel east on CR 500. Travel east 2.8 miles and turn left off of CR 500 and travel southwest. Travel 3.5 miles south and westerly. Turn left onto access road to well Harrington #4X and #7. Go south 0.3 mi., new access is to the left on the east side of existing road.

Environmental, Health & Safety

"A minute of thought is worth more than an hour of talk." - Author Unknown

	TRIR*	LTA	Restrict'd Duty	OSHA Rec	1st Aid
Goal	0	0	0	0	0
Actual (11/2/07)	2.57	5	8	23	114

* TRIR - Total Recordable Incident Rate per 200,000 man-hours.

Environmental Goals:

- Zero Spills on Location
- Remove Trash from Roads and Locations

Geology		Hydraulics	Drig Fluids	Cement	Materials
1000'		12 1/4	Spud		
NA 2153' Nacimiento Ojo Alamo		7-7/8	Drill out from under surface w/ Clean-Faze system. Sweep w/ gel and fiber as needed. (Vis 33-35, WT 8.4-8.7 ppg, WL of 20-25 cc/30 min).	Single Stage Surface Cement Job Lead: 50:50 Poz Standard with 2% bent, 2% CaCl2 and 0.125 pps Pol-E-Flake, 5 pps Gilsonite. 729 sks 13.5 ppg 5.22 gal/sk 955 cu.ft 1.31 cu.ft/sk 225% Tail: Class G with 1% CaCl2 and 0.125 pps Pol-E-Flake 68 sks 15.6 ppg 5.22 gal/sk 81 cu.ft 1.19 cu.ft/sk 0% Top of tail @ 800 ft.	1 9-5/8" Wood Group WT-22 wellhead 958 feet 9-5/8", 36#, J-55, STC 1 9-5/8" Collar w/ Insert Float Valve 42 feet 9-5/8", 36#, J-55, STC shoe joint 1 9-5/8" Sawtooth guide shoe 3 Bow Type Centralizers 1 Rubber Plug for Displacement for H&P 282
2226' Kirtland		7-7/8" DSR616M-J1	Six 12/32's jets	Single Stage Production Cement Job Preflush: 10 bbls FW w/ Halad @-9 and WG-17, 2 bbls freshwater. Lead: Premium Plus Type III, 30 pps Poz, 3% bentonite, 5 pps Pheno-seal LCM, 0.3% Halad-344 FL Control 757 sks 11.5 ppg 14.46 gal/sk 1952 cu.ft 2.58 cu.ft/sk 50%	Production String 1 4-1/2" Float Shoe (Gemoco) 20 4-1/2", 11.6#, N-80, LT&C 1 4-1/2" Float collar 421 feet 4-1/2", 11.6#, N-80, LT&C 10 feet 4-1/2", 11.6#, N-80, LT&C marker joint 150' above the Graneros 3651 feet 4-1/2", 11.6#, N-80, LT&C 10 feet 4-1/2", 11.6#, N-80, LT&C @ 1,100' above the Massive Cliffhouse 3366 feet 4-1/2", 11.6#, N-80, LT&C
2709' Fruitland		8-24K max WOB	Spin Top Drive 50-70 RPM	Run Teledrift and Motor.	Centralizers: 17 4-1/2" x 7-7/8" bow type centralizers, 1 on shoe jt, then 1 every 4th jt f/bottom to 4480' 2 4-1/2" x 7-7/8" bow type centralizers, 1 on joint below stage tool and 1 on joint above stage tool (if stage tool is used) 2 4-1/2" x 7-7/8" Turbolizers, one every joint from Kirtland top to Ojo top 1 4-1/2" x 7-7/8" bow type centralizer inside the 9-5/8" shoe
2884' Plc. Cliffs		Run an unstabilized	Hunting 6-1/2", 7-8 lobe, 5.0 stg, 0.24 rev/gpm motor	2-Stage Production Cement Job (If Necessary) Stage 1 Preflush: 10 bbls FW w/ Halad @-9 and WG-17, 2 bbls freshwater. Lead: Premium Plus / Type III cement + 3.0% Bentonite + 30 pps San Juan Poz + 5.0 pps Pheno-seal 623 sks 13.1 ppg 14.60 gal/sk 879 cu.ft 1.41 cu.ft/sk 50% 115.9 bbls displacement Stage 2 Preflush: 10 bbls FW w/ Halad @-9 and WG-17, 2 bbls freshwater Tail: Premium Plus / Type III cement + 3.0% Bentonite + 30 pps San Juan Poz + 5.0 pps Pheno-seal 615 sks 11.5 ppg 15.80 gal/sk 1660 cu.ft 2.70 cu.ft/sk 50% 76.3 bbls displacement	
3030' Lewis		Run ten 6-1/2" DC's			
3376' Huerfano Bentonite Chacra					
4539' Upper Cliff House					
4587' Massive Cliff House					
4911' Menefee					
5211' If Required					
5558' Massive Pt Lookout					
6339' Mancos Shale					
7131' Gallup					
7187' Greenhorn					
7238' Graneros					
NA Two Wells					
7342' Paguate					
7367' Upper Cubero					
NA Lower Cubero					
7428' Oak Canyon					
7455' Encinal Top					
7458' Est. btm perfs					
7478' Est. PBTD					
7478' TD					

SJ 28-7 #101F (DK, 2002, 1 ml. N): Rig drilled surface hole to 290'. Ran 9-5/8", J-55, 36#, ST&C to 271'. Pumped 35 bbls and circ 15 bbls to surf. Drilled f/290'-3,250' w/ 8-3/4" Hughes HX-03C, avg ROP=107 fph, max dev =2 deg. Tight hole on short trip f/3,250'-2,600'. Ran 7", 20#, J-55 to 3,230'. Pumped 206 bbls cmt, circ 70 bbls to surf, 150% excess. Drilled f/3,250' 7,225' w/ 6-1/4" Smith H41R6R2, avg ROP=102 fph. Saw connection gas at 4,082', drilled with N₂ at 4560' but still had 5'-10' flare. Hole quit dusting at 7,185', had to mud up. Drilled f/7,225'-7,494' with 6-1/4" STR44C, avg ROP=8 fph. Ran 4-1/2", 10.5#, J-55, ST&C to 7,494'. Pumped 44 bbls cmt on 1st stage, circ 24 bbls to surf, pumped 41 bbls 2nd stg. No TOC reported in completions reports.

Harrington #9 (MV/DK, 1995, 1/2 ml. S): Rig drilled surface hole to 318'. Ran 8-5/8", K-55, 24#, ST&C to 313'. Pumped 70 bbls and circ 41 bbls to surf, 200% excess. Drilled f/318'-6,900' w/ multiple 7-7/8" core bits and tricone bits. Ran 5-1/2", 17#, K-55 to 6898'. Had water flow after drilling to 2,046' DV tools @ 4,855' and 1,827'. Pumped 133 bbls cmt on 1st stage, did not bump plug, circ 6 bbls to surf. Pumped 294 bbls 2nd stg. got cmt to just below surface. Pumped 124 bbls 3rd stage and circ 135 bbls to surf.

Brookhaven Com #8A (Chacra, 2000, 1 1/2 ml. W): Rig drilled surface hole to 231'. Ran 8-5/8", J-55, 24#, ST&C to 271'. Pumped 38 bbls and circ 13 bbls to surf. Mud drilled f/231'-4,734' w/ 7-7/8" Hughes GT-09C, avg ROP=60 fph, max dev =1 25 deg. Well flowed 1-1/2" stream of water @ 900'. Ran 5-1/2", 15.5#, K-55, LT&C to 4,724', ran 5-1/2", 17#, L-80, LT&C on top. Pumped 339 bbls cmt, circ 16 bbls to surf, 140% excess.

Harrington #4X (PC, 2003, 973' NW): Drilled 9-78" surface hole to 140'. Ran 7", 20#, J-55, ST&C to 137'. Pumped 10.9 bbls and got no returns to surf. Drilled f/140'-914' w/ 6-1/4" HAT bit, avg ROP=62 fph, max dev=4 5 deg. Lost circ at 674'. Drilled blind with 30-35% LCM in mud f/750'-914'. Drilled f/914'-3,050' w/ 6-1/4" HAT bit, avg ROP=70 1 fph, max dev=3.75 deg, 211 gpm. Lost an average of 5-20 bbls mud per hour (with 25-30% LCM in mud) while drilling f/914'-2,354'. No losses reported while drilling f/2,354'-3,050' with 35% LCM. TOOH for short trip and staged back in to 675', lost returns. Increased LCM to 45% and got returns back. TOOH and ran logs. Ran 4-1/2", 10.5#, J-55 ST&C to 3,043', lost 16 bbls while circ on btm prior to pumping cmt. Pumped 111 bbls cmt, got 47 bbls back to surf with good returns throughout job.

SJ 28-7 #100M (1998, 1/4 ml. N): Drilled surface hole to 282'. Ran 9-5/8", 36#, K-55, LT&C to 280'. Drilled 8-3/4" int hole to 3,204'. No mention of lost returns in IADC logs. Ran 7", 23#, J-55, LT&C to 3,204'. Drilled with air f/3,204'-7,467'. No mention of hole getting wet. Ran 4-1/2" csg and cemented with no mention of problems in IADC reports. Took eight days to drill well.

Operations Notes:

- Surface casing to be set by H&P 282. Use mud from reserve pits to drill surface.
- Drill intermediate hole w/ Clean Faze w/ sweeps as needed. Disperse mud for Lewis. Transfer mud to next location--notify Regulatory
- Install rotating rubber after drill collars are buried
- Fill out all Check Sheets (MIRU, Pre-spud) and take pictures of location
- Lost circulation is highly likely while drilling the surface hole. Use 30-35% LCM while drilling surface hole, drill blind if necessary until reaching 700', then attempt to heal losses.
- Surface pits MUST be lined according to the APD.
- Disperse mud & spin bit to remove bit ball while drilling the Lewis during connections and short trip.
- Use a 20' shoe joint on production string. Cement w/ Halliburton on all cement jobs
- Use Weatherford/Gemoco float equipment for all holes this well.
- Call all appropriate regulatory agencies 24 hours in advance of spud, cementing, or running casing. Leave message if after hours

Prepared by: Russell Perkins - Drilling Engineer

Approved by: Tom Bealesio - Drilling Superintendent