UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

	T C. Work	5. Lease Number
a.	Type of Work DRILL	SF-080314
		Unit Reporting Number
		6. If Indian, All. or Tribe
b.	Type of Well	
	GAS — MAR 2000	
•	Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name
	Address & Phone No. of Operator	8. Farm or Lease Name
•	PO Box 4289, Farmington, NM 87499	Harrison
		9. Well Number
	(505) 326-9700	#5
	CWAI	10. Field, Pool, Wildcat
١.	Location of Well 1190'FSL, 1550'FWL	Basin Dakota
1_	1190, 121, 1330 141	11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 56.2, Longitude 107° 55.5	N Sec.31, T-32-N, R-10-
נ	Lacitado o	API# 30-045- 30477
	A T-111	12. County 13. State
14.	Distance in Miles from Nearest Town 12.6 miles from Int. Hwy 550 & Hwy 173 in Azte	c San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease L	ine
	1190 ′	17. Acres Assigned to Well
16.	Acres in Lease	310.83 W/2
 18.	Distance from Proposed Location to Nearest Well, Drig, Compl, o	or Applied for on this Lease
	540' This protein is subject to translated and	20. Rotary or Cable Tools
19.	Proposed Depth procedures on their purasent to 43 CFR 3165.3	Rotary
	7390' and appear pursuent to 43 CPR 3185.4.	
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
21.	5960'GR	-
23.	Proposed Casing and Cementing Program See Operations Plan attached Program Pro	ACCC WITH ATTACHED
	(Sena Cale	12 - 29-00 -
24.	Authorized by:	
PERM	MIT NO APPROVAL [DATEDATE

Archaeclogical Report to be submitted
Threatened and Endangered Species Report to be submitted
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.

DISTRICT | F.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

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

DISTRICT # F.O. Drawer DD, Artesia, N.M. 88211-0719

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

DISTRICT # 1000 Rio Brozos Rd., Aztec, N.M. 87410

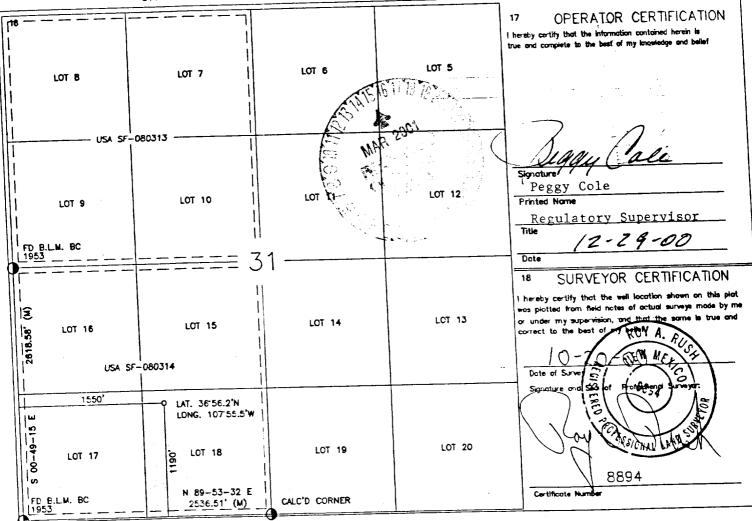
AMENDED REPORT

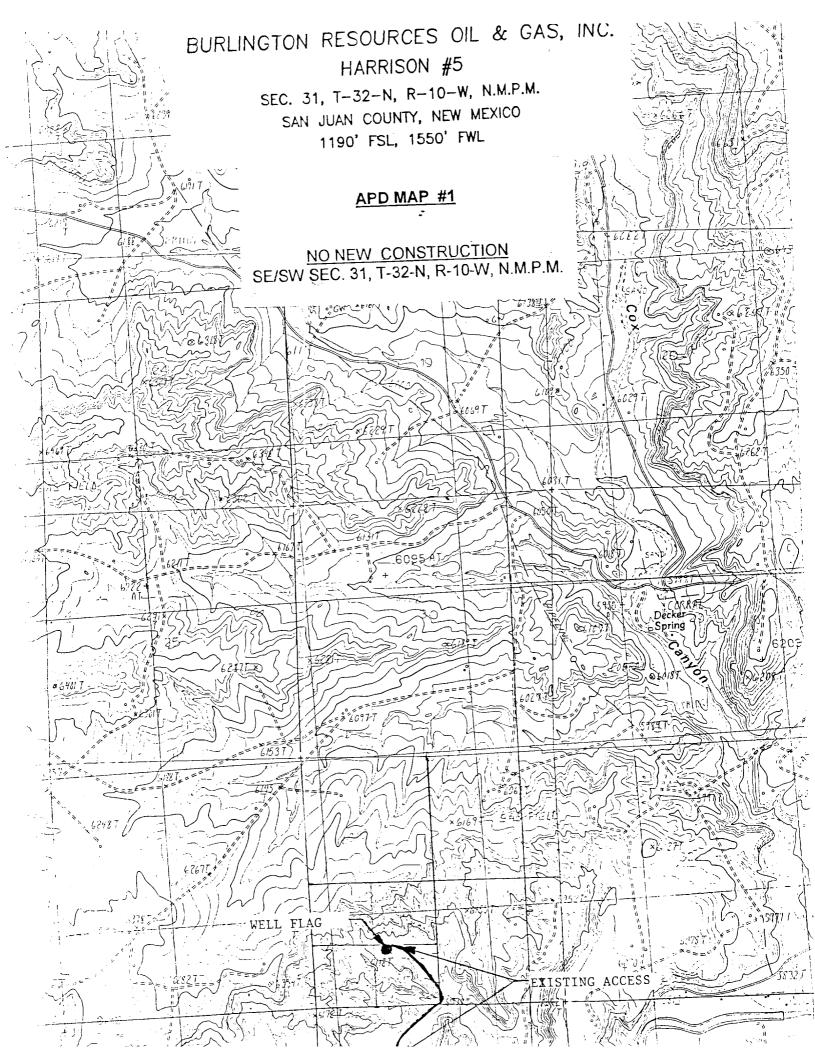
DISTRICT IV PO Box 2088, Santa Fe, NM 87504-2088

x. 2088, Santa Fe, NM 87504-2088	WELL LOCATION AND ACREAGE DEDICATION PLA	<u>T</u>
1 API Number 30-045- 30477	² Pool Code Pasin Dakota	
Property Code 8539 **Property Name HARRISON		* Well Number
10337		

*Operator Name OCRID No. 5960' ----BURLINGTON RESOURCES OIL & GAS, INC. 14538 10 Surface Location East/West line County North/South line Feet from the Feet from the Ronge Lot Idn Township SAN JUAN UL or lot no. Section WEST 1550' SOUTH 1190' 10-W 32-N 31 Location If Different From Surface 11 Bottom Hole East/West line County North/South line Feet from the Feet from the Lot Idn Rance Township Section UL or lot no. 15 Order No. 14 Consolidation Code 13 Joint or Infill 12 Dedicated Acres W/310.83

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





OPERATIONS PLAN

Well Name: Harrison #5

Location: 1190'FSL, 1550'FWL, Sec.31, T-32-N, R-10-W

San Juan County, NM

Latitude 36° 56.2, Longitude 107° 55.5

Formation: Basin Dakota

Elevation: 5960'GR

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	960'	
Ojo Alamo	960 '	1143'	aquifer
Kirtland	1143'	2300'	gas
Fruitland	2300 ′	2740 ′	
Pictured Cliffs	2740'	2950 '	gas
Lewis	2950 '	3445'	gas
Intermediate TD	3050'		
Mesaverde	3445 ′	3860 ′	gas
Chacra	3860 ′	4480′	gas
Massive Cliff House	4480'	4600 ′	gas
Menefee	4600 ′	4967 '	gas
Massive Point Lookout	4967 ′	5400 ′	gas
Mancos Shale	5400 ′	6370 ′	gas
Gallup	6370 ′	7012 ′	gas
Greenhorn	7012 '	7082 '	gas
Graneros	7082 ′	7142′	gas
Dakota	7142'	7390 ′	gas
TD	7390'_		

Logging Program:

Mudlog - 6800' to TD

Open hole logs - Platform Express, Temp, DIL/GR, Density & Neutron Porosity, Bulk Density/Correction - TD to minimum operations

Cased hole logs - CBL/GR - TD to surface.

Cores - none

Mud Program:

u	1109.					
	Inte:	rval	Type	Weight	Vis.	Fluid Loss
	0-	200'	Spud			no control
	200-	3050'	LSND	8.4-9.0	30-60	no control
	3050-	7390 '	Gas	n/a	n/a	n/a

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	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	(1' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3050'	7"	20.0#	J - 55
6 1/4"	2950' - 7390 <u>-</u>	4 1/2"	10.5#	K-55

Tubing Program:

0' - 7390' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 3000 psi minimum double gate BCP 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 drall 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# flocele/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/311 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps flocele, 5 pps gilsonite (918 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 2200'. First stage: cement with 200 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps flocele, 5 pps gilsonite. Second stage: 256 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# flocele/sx (918 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 1143'. Two turbolating centralizers at the base of the Ojo Alamo at 1143'. 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" x 7" overlap. Lead with 443 sx 50/50 Class "G" Poz with 5% gel, 0.25# flocele/sx, 5# gilsonite/sx, 0.1% retardant and 0.25% fluid loss additive (638 cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

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

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

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" overlap 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
- 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 formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

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

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The west half of Section 31 is dedicated to the Dakota in this well.
- This gas is dedicated.

Other P Hosfor Drifting Engineer

1/2/0/ Date