

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

Sundry Notices and Reports on Wells

1. Type of Well
GAS

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

3. Address & Phone No. of Operator

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

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

1890' FNL, 670' FEL, Sec.13, T-31-N, R-10-W, NMPM

5. Lease Number
NM-014110

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Walker Koch #1C

9. API Well No.
30-045-30748

10. Field and Pool
Blanco MV/Basin DK

11. County and State
San Juan 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

☐ Subsequent Report

☐ Recompletion

☐ New Construction

☐ Final Abandonment

☐ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Altering Casing

☐ Conversion to Injection

☒ Other - Name change

13. Describe Proposed or Completed Operations

The well name of the subject well has been changed from the Walker #1C to the Walker Koch #1C. Attached is the revised C-102 plat.

It is intended to add the Dakota formation to the subject well. The approved operations plan will be altered according to the attached.



2001 SEP 12 PM 5:14

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

Signed [Signature] Title Regulatory Supervisor Date 9/7/01

TLW

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date 9/13/01

CONDITION OF APPROVAL, if any:

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 representations as to any matter within its jurisdiction.

NMOCD

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

WELL LOCATION AND ACREAGE DEDICATION PLAN			
' API Number	' Pool Code	' Pool Name	
30-045-30748	72319/71599	Blanco Mesaverde/Basin Dakota	
' Property Code	' Property Name		' Well Number
	WALKER KOCH		1C
' OGRID No.	' Operator Name		' Elevation
14538	Burlington Resources Oil & Gas Company, LP		6585'
' Surface Location			

					10 Surface Location				
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the 1890'	North/South line NORTH	Feet from the 670'	East/West line EAST	County SAN JUAN
H	13	31N	10W						

" Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County

" Dedicated Acres MV: E/320 DK: E/277.56	" Joint or Infill I	" Consolidation Code	" Order No.
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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

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETELY NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16	S87°49'W	4579.08'			
26 16.24' 4	3	2	1	2627.46'	<div style="border: 1px solid black; padding: 5px;"> 17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature Printed Name Regulatory Supervisor Title Date </div>
			1890		
N00°00'E 5	6	7	8	N01°03'W 0.670'	<div style="border: 1px solid black; padding: 5px;"> 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. <div style="text-align: right;">04/11/01</div> Date of Survey Signature and Seal of Professional Surveyor: Certificate Number </div>
2605.02' 12	11	10	9	2625.48'	
N01°19'W 13	14	15	NM-013688-A		
S88°14'W			16	N00°17'W	
			4584.36'		

NM-014110

SECTION 13

OPERATIONS PLAN

Well Name: Walker Koch #1C
Location: 1890' FNL, 670' FEL, Sec 13, T-31-N, R-10-W
San Juan County, NM
Latitude 36° 54.01, Longitude 107° 49.43
Formation: Blanco Mesaverde/Basin Dakota
Elevation: 6585' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1872'	
Ojo Alamo	1872'	1922'	aquifer
Kirtland	1922'	2807'	gas
Fruitland	2807'	3387'	gas
Pictured Cliffs	3387'	3617'	gas
Lewis	3617'	4112'	gas
Intermediate TD	3717'		
Mesa Verde	4112'	4502'	gas
Chacra	4502'	5212'	gas
Massive Cliff House	5212'	5292'	gas
Menefee	5292'	5657'	gas
Massive Point Lookout	5657'	6047'	gas
Mancos	6047'	6972'	gas
Gallup	6972'	7675'	gas
Greenhorn	7675'	7732'	gas
Graneros	7732'	7793'	gas
Dakota	7793'	8301'	gas
Morrison	8301'		
TD	8350'		

Logging Program:

Cased hole - CBL-CCL-GR - TD to surface
Open hole - DIL/GR, Density & Neutron Porosity, Bulk
Density/Correction, Microlog - TD to minimum operations depth
Mudlog - 6500' to TD
Cores - none

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-9.0	40-50	no control
200- 3717'	LSND	8.4-9.0	30-60	no control
3717- 7743'	Air/N2	n/a	n/a	n/a
7743- 8350'	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):

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3717'	7"	20.0#	J-55
6 1/4"	3617' - 8350'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 8350' 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/388 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 (1117 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 2707'. First stage: cement with 237 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: 315 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx (1117 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 1922'. Two turbolating centralizers at the base of the Ojo Alamo at 1922'. 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 472 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 (680 cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

4 1/2" production casing alternative: Lead w/179 sx 9.5 PPG Litecrete Blend w/0.11% dispersant, 0.5% fluid loss. Tail w/193 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 (728 cu.ft., 50% excess to cement 4 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" 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 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 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 east half of Section 13 is dedicated to the Mesa Verde and Dakota in this well.
- This gas is dedicated.

Brennan D. Shurt
Drilling Engineer

9/17/2001
Date

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

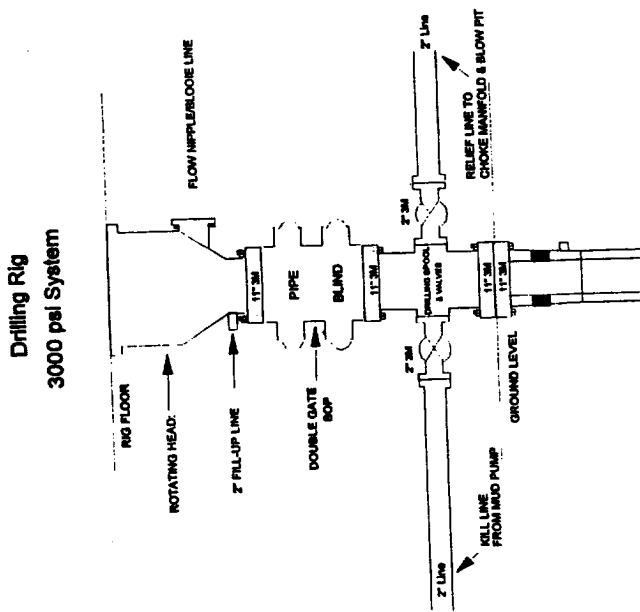
Free Water: 0%

Compressive Strength (@25:19) :500

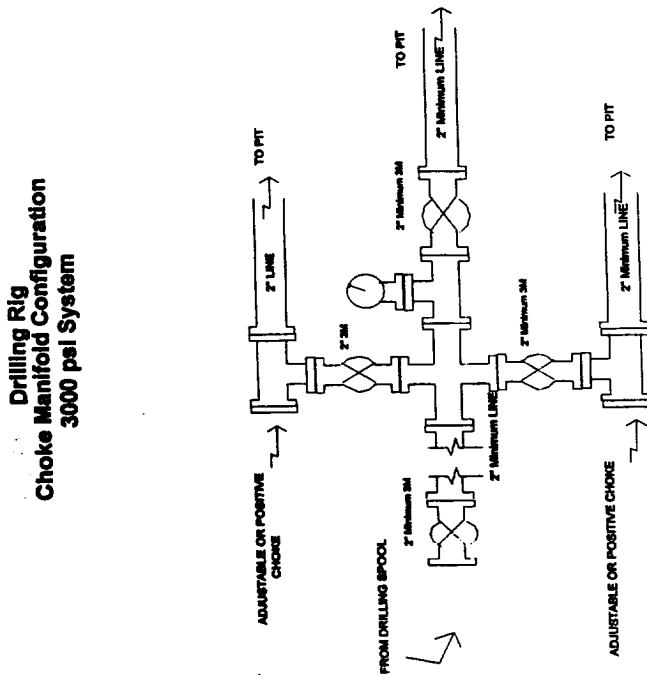
Compressive Strength (@48:00) :630

Burlington Resources

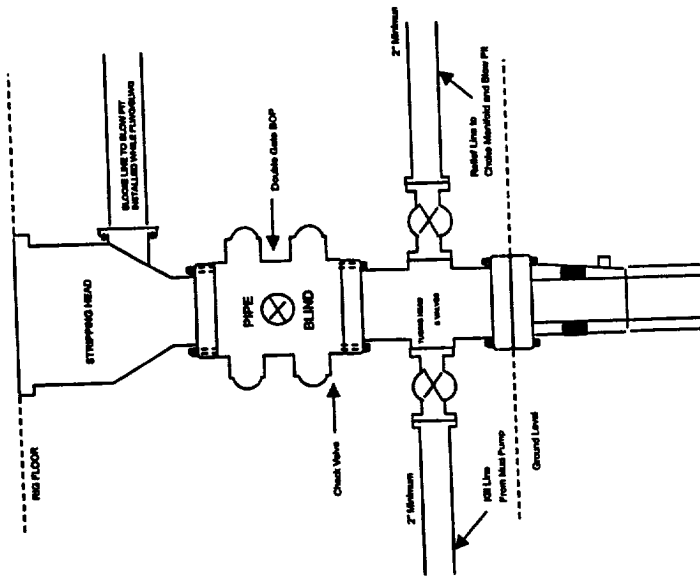
**Completion/Workover Rig
BOP Configuration
3,000 psi System**



BOP Installation from Surface Casing Point to Total Depth. 1 1/2" Bore



Choke manifold installation from Surface Casing Point to Total Depth. 3,000psi working pressure equipment with two chokes.



Minimum BOP Installation for all Completion/Workover Operations. 7'-1/8" bore, 3000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 3000 psi working pressure or greater excluding 500 psi stripping head.