

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 03 2014

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON Wells and Minerals
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

Farmington Field Office

FEE

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☐ Oil Well

☒ Gas Well

☐ Other

2. Name of Operator

Burlington Resources Oil & Gas Company LP

3a. Address

PO Box 4289, Farmington, NM 87499

3b. Phone No. (include area code)

(505) 326-9700

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface UL D (NWNW), 891' FNL & 1162' FWL, Sec. 21, T32N, R6W

Bottomhole UL C (NENW), 710' FNL & 1980' FWL, Sec. 16, T32N, R6W

5. Lease Serial No.

6. Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

Allison Unit

8. Well Name and No.

Allison Unit #152H

9. API Well No. 30-045-35559
not assigned yet

10. Field and Pool or Exploratory Area

Basin FC

11. Country or Parish, State

San Juan

New Mexico

12-CHECK-THE-APPROPRIATE-BOX(ES)-TO-INDICATE-NATURE-OF-NOTICE,REPORT-OR-OTHER-DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Directional Drill Plan
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once Testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Attached is the Directional Drill Plan and Plot for the subject well.

OIL CONS. DIV DIST. 3

JUL 14 2014

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Arleen White

Title Staff Regulatory Technician

Signature

Arleen White

Date

6/3/14

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy Salvors

Title

Petroleum Eng.

Date

7/8/2014

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

FFO

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 with:

ConocoPhillips SJB

San Juan Basin - New Mexico West Wells

Allison Unit Wells

Allison Unit #152H

Wellbore #1

Plan: APD Plan

Standard Planning Report

07 March, 2014

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Allison Unit #152H
Company:	ConocoPhillips SJB	TVD Reference:	15' KB @ 6170.0usft (15' KB)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	15' KB @ 6170.0usft (15' KB)
Site:	Allison Unit Wells	North Reference:	Grid
Well:	Allison Unit #152H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Plan		

Project	San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site	Allison Unit Wells		
Site Position:		Northing:	2,182,281.84 usft
From:	Lat/Long	Easting:	576,403.52 usft
Position Uncertainty:	15.0 usft	Slot Radius:	13-3/16"
		Latitude:	36° 59' 49.194 N
		Longitude:	107° 34' 18.126 W
		Grid Convergence:	0.16 °

Well	Allison Unit #152H		
Well Position	+N/-S	0.0 usft	Northing: 2,172,771.27 usft
	+E/-W	0.0 usft	Easting: 606,647.72 usft
Position Uncertainty	2.0 usft	Wellhead Elevation:	usft
		Latitude:	36° 58' 14.166 N
		Longitude:	107° 28' 5.742 W
		Ground Level:	6,155.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	BGGM2013	10/2/2013	9.56
			Dip Angle
			63.67
			Field Strength
			50,616

Design	APD Plan		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			8.55

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,780.0	0.00	0.00	1,780.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,273.8	90.00	0.00	2,730.0	950.0	0.0	6.02	6.02	0.00	0.00	
3,274.8	90.00	0.00	2,730.0	951.0	0.0	0.00	0.00	0.00	0.00	Allison 152H, Entry Pt
4,346.5	91.60	0.00	2,715.0	2,022.5	0.0	0.15	0.15	0.00	0.00	Allison 152H, Target #
5,320.7	89.31	14.61	2,707.2	2,986.1	123.6	1.52	-0.24	1.50	98.83	
5,384.3	89.31	14.61	2,708.0	3,047.6	139.6	0.00	0.00	0.00	0.00	Allison 152H, Target #
7,984.2	91.49	16.40	2,690.0	5,552.6	834.6	0.11	0.08	0.07	39.29	Allison 152H BHL

ConocoPhillips

Planning Report

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Project:	San Juan Basin - New Mexico West Wells	MD Reference:	15' KB @ 6170.0usft (15' KB)
Site:	Allison Unit Wells	North Reference:	Grid
Well:	Allison Unit #152H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Plan		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
425.0	0.00	0.00	425.0	0.0	0.0	0.0	0.00	0.00	0.00
NACIMIENTO									
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
Surface, 9-5/8"									
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,780.0	0.00	0.00	1,780.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	1.20	0.00	1,800.0	0.2	0.0	0.2	6.02	6.02	0.00
1,850.0	4.22	0.00	1,849.9	2.6	0.0	2.5	6.02	6.02	0.00
1,900.0	7.23	0.00	1,899.7	7.6	0.0	7.5	6.02	6.02	0.00
1,950.0	10.24	0.00	1,949.1	15.2	0.0	15.0	6.02	6.02	0.00
2,000.0	13.25	0.00	1,998.0	25.3	0.0	25.1	6.02	6.02	0.00
2,002.0	13.38	0.00	2,000.0	25.8	0.0	25.5	6.02	6.02	0.00
OJO ALAMO									
2,050.0	16.27	0.00	2,046.4	38.1	0.0	37.6	6.02	6.02	0.00
2,100.0	19.28	0.00	2,094.0	53.3	0.0	52.7	6.02	6.02	0.00
2,122.3	20.63	0.00	2,115.0	61.0	0.0	60.3	6.02	6.02	0.00
KIRTLAND									
2,150.0	22.29	0.00	2,140.7	71.1	0.0	70.3	6.02	6.02	0.00
2,200.0	25.30	0.00	2,186.5	91.2	0.0	90.2	6.02	6.02	0.00
2,250.0	28.32	0.00	2,231.1	113.8	0.0	112.5	6.02	6.02	0.00
2,300.0	31.33	0.00	2,274.5	138.7	0.0	137.1	6.02	6.02	0.00
2,350.0	34.34	0.00	2,316.5	165.8	0.0	163.9	6.02	6.02	0.00
2,400.0	37.35	0.00	2,357.0	195.0	0.0	192.9	6.02	6.02	0.00
2,450.0	40.37	0.00	2,395.9	226.4	0.0	223.9	6.02	6.02	0.00
2,500.0	43.38	0.00	2,433.2	259.8	0.0	256.9	6.02	6.02	0.00
2,550.0	46.39	0.00	2,468.6	295.1	0.0	291.8	6.02	6.02	0.00
2,600.0	49.40	0.00	2,502.1	332.2	0.0	328.5	6.02	6.02	0.00
2,644.1	52.06	0.00	2,530.0	366.3	0.0	362.2	6.02	6.02	0.00
FRUITLAND									
2,650.0	52.42	0.00	2,533.6	371.0	0.0	366.8	6.02	6.02	0.00
2,700.0	55.43	0.00	2,563.1	411.4	0.0	406.8	6.02	6.02	0.00
2,750.0	58.44	0.00	2,590.3	453.3	0.0	448.2	6.02	6.02	0.00
2,800.0	61.45	0.00	2,615.4	496.5	0.0	491.0	6.02	6.02	0.00
2,850.0	64.47	0.00	2,638.1	541.1	0.0	535.1	6.02	6.02	0.00
2,900.0	67.48	0.00	2,658.5	586.7	0.0	580.2	6.02	6.02	0.00
2,950.0	70.49	0.00	2,676.4	633.4	0.0	626.4	6.02	6.02	0.00
3,000.0	73.50	0.00	2,691.8	680.9	0.0	673.4	6.02	6.02	0.00

ConocoPhillips

Planning Report

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Site:	Allison Unit Wells	North Reference:	Grid
Well:	Allison Unit #152H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Plan		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,050.0	76.51	0.00	2,704.8	729.2	0.0	721.1	6.02	6.02	0.00	
3,100.0	79.53	0.00	2,715.2	778.1	0.0	769.5	6.02	6.02	0.00	
3,150.0	82.54	0.00	2,722.9	827.5	0.0	818.3	6.02	6.02	0.00	
3,200.0	85.55	0.00	2,728.1	877.2	0.0	867.5	6.02	6.02	0.00	
3,250.0	88.56	0.00	2,730.7	927.2	0.0	916.9	6.02	6.02	0.00	
3,273.8	90.00	0.00	2,730.0	950.0	0.0	939.4	6.02	6.02	0.00	
3,274.8	90.00	0.00	2,730.0	951.0	0.0	940.4	0.00	0.00	0.00	
Intermediate, 7"										
3,300.0	90.04	0.00	2,730.0	976.2	0.0	965.3	0.15	0.15	0.00	
3,400.0	90.19	0.00	2,729.8	1,076.2	0.0	1,064.2	0.15	0.15	0.00	
3,500.0	90.34	0.00	2,729.3	1,176.2	0.0	1,163.1	0.15	0.15	0.00	
3,600.0	90.49	0.00	2,728.6	1,276.2	0.0	1,262.0	0.15	0.15	0.00	
3,700.0	90.64	0.00	2,727.6	1,376.2	0.0	1,360.9	0.15	0.15	0.00	
3,800.0	90.79	0.00	2,726.4	1,476.2	0.0	1,459.8	0.15	0.15	0.00	
3,900.0	90.94	0.00	2,724.9	1,576.1	0.0	1,558.6	0.15	0.15	0.00	
4,000.0	91.09	0.00	2,723.1	1,676.1	0.0	1,657.5	0.15	0.15	0.00	
4,100.0	91.24	0.00	2,721.1	1,776.1	0.0	1,756.4	0.15	0.15	0.00	
4,200.0	91.38	0.00	2,718.8	1,876.1	0.0	1,855.2	0.15	0.15	0.00	
4,300.0	91.53	0.00	2,716.3	1,976.1	0.0	1,954.1	0.15	0.15	0.00	
4,346.5	91.60	0.00	2,715.0	2,022.5	0.0	2,000.0	0.15	0.15	0.00	
4,400.0	91.48	0.80	2,713.6	2,076.0	0.4	2,053.0	1.52	-0.23	1.50	
4,500.0	91.24	2.30	2,711.2	2,175.9	3.1	2,152.2	1.52	-0.23	1.50	
4,600.0	91.01	3.80	2,709.2	2,275.8	8.4	2,251.8	1.52	-0.24	1.50	
4,700.0	90.77	5.30	2,707.7	2,375.4	16.4	2,351.5	1.52	-0.24	1.50	
4,800.0	90.54	6.80	2,706.5	2,474.9	26.9	2,451.4	1.52	-0.24	1.50	
4,900.0	90.30	8.30	2,705.8	2,574.0	40.0	2,551.4	1.52	-0.24	1.50	
5,000.0	90.06	9.80	2,705.5	2,672.8	55.8	2,651.4	1.52	-0.24	1.50	
5,100.0	89.83	11.30	2,705.6	2,771.1	74.1	2,751.3	1.52	-0.24	1.50	
5,200.0	89.59	12.80	2,706.1	2,868.9	95.0	2,851.1	1.52	-0.24	1.50	
5,300.0	89.35	14.30	2,707.0	2,966.1	118.4	2,950.7	1.52	-0.24	1.50	
5,320.7	89.31	14.61	2,707.2	2,986.1	123.6	2,971.3	1.52	-0.24	1.50	
5,384.3	89.31	14.61	2,708.0	3,047.6	139.6	3,034.5	0.00	0.00	0.00	
5,400.0	89.32	14.62	2,708.2	3,062.8	143.6	3,050.2	0.11	0.08	0.07	
5,500.0	89.40	14.69	2,709.3	3,159.6	168.9	3,149.6	0.11	0.08	0.07	
5,600.0	89.49	14.76	2,710.3	3,256.3	194.3	3,249.0	0.11	0.08	0.07	
5,700.0	89.57	14.83	2,711.1	3,353.0	219.8	3,348.4	0.11	0.08	0.07	
5,800.0	89.65	14.90	2,711.8	3,449.6	245.5	3,447.8	0.11	0.08	0.07	
5,900.0	89.74	14.97	2,712.3	3,546.2	271.3	3,547.2	0.11	0.08	0.07	
6,000.0	89.82	15.04	2,712.7	3,642.8	297.1	3,646.5	0.11	0.08	0.07	
6,100.0	89.91	15.10	2,712.9	3,739.4	323.1	3,745.9	0.11	0.08	0.07	
6,200.0	89.99	15.17	2,713.0	3,835.9	349.2	3,845.2	0.11	0.08	0.07	
6,300.0	90.07	15.24	2,713.0	3,932.4	375.5	3,944.6	0.11	0.08	0.07	
6,400.0	90.16	15.31	2,712.8	4,028.9	401.8	4,043.9	0.11	0.08	0.07	
6,500.0	90.24	15.38	2,712.4	4,125.3	428.3	4,143.2	0.11	0.08	0.07	
6,600.0	90.33	15.45	2,711.9	4,221.7	454.9	4,242.4	0.11	0.08	0.07	
6,700.0	90.41	15.52	2,711.3	4,318.1	481.6	4,341.7	0.11	0.08	0.07	
6,800.0	90.49	15.59	2,710.5	4,414.4	508.4	4,441.0	0.11	0.08	0.07	
6,900.0	90.58	15.65	2,709.5	4,510.7	535.3	4,540.2	0.11	0.08	0.07	
7,000.0	90.66	15.72	2,708.5	4,607.0	562.3	4,639.4	0.11	0.08	0.07	
7,100.0	90.75	15.79	2,707.2	4,703.2	589.5	4,738.6	0.11	0.08	0.07	
7,200.0	90.83	15.86	2,705.9	4,799.4	616.8	4,837.8	0.11	0.08	0.07	
7,300.0	90.91	15.93	2,704.3	4,895.6	644.1	4,937.0	0.11	0.08	0.07	
7,400.0	91.00	16.00	2,702.7	4,991.7	671.6	5,036.1	0.11	0.08	0.07	

ConocoPhillips

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJBU
Project: San Juan Basin - New Mexico West Wells
Site: Allison Unit Wells
Well: Allison Unit #152H
Wellbore: Wellbore #1
Design: APD Plan

Local/Co-ordinate Reference: Well Allison Unit #152H
TVD Reference: 15' KB @ 6170.0usft (15' KB)
MD Reference: 15' KB @ 6170.0usft (15' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,500.0	91.08	16.07	2,700.9	5,087.8	699.2	5,135.2	0.11	0.08	0.07
7,600.0	91.17	16.14	2,698.9	5,183.9	727.0	5,234.4	0.11	0.08	0.07
7,700.0	91.25	16.20	2,696.8	5,279.9	754.8	5,333.5	0.11	0.08	0.07
7,800.0	91.33	16.27	2,694.5	5,375.9	782.8	5,432.5	0.11	0.08	0.07
7,900.0	91.42	16.34	2,692.1	5,471.8	810.8	5,531.6	0.11	0.08	0.07
7,984.2	91.49	16.40	2,690.0	5,552.6	834.6	5,614.9	0.11	0.08	0.07

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Allison 152H, Entry Point - plan hits target center - Point	0.00	0.00	2,730.0	951.0	0.0	2,173,722.20	606,647.72	36° 58' 23.569 N	107° 28' 5.697 W
Allison 152H, Target #2 - plan hits target center - Point	0.00	0.00	2,708.0	3,047.6	139.6	2,175,818.65	606,787.31	36° 58' 44.294 N	107° 28' 3.878 W
Allison 152H BHL - plan hits target center - Point	0.00	0.00	2,690.0	5,552.6	834.6	2,178,323.46	607,482.22	36° 59' 9.036 N	107° 27' 55.194 W
Allison 152H, Target #1 - plan hits target center - Point	0.00	0.00	2,715.0	2,022.5	0.0	2,174,793.63	606,647.72	36° 58' 34.164 N	107° 28' 5.646 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
500.0	500.0	Surface, 9-5/8"	9-5/8	12-1/4
7,984.2	2,690.0	Production Liner, 4-1/2" pre-perforated	4-1/2	6-1/4
3,274.8	2,730.0	Intermediate, 7"	7	8-3/4

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
425.0	425.0	NACIMIENTO		0.00	
2,644.1	2,530.0	FRUITLAND		0.00	
2,002.0	2,000.0	OJO ALAMO		0.00	
2,122.3	2,115.0	KIRTLAND		0.00	

REFERENCE INFORMATION

15' KB @ 6170.0usft (15' KB)
Ground Elevation 6155.0
Reference Lat: 36° 58' 14.166 N
Reference Long: 107° 28' 5.742 W

Project:San Juan Basin - New Mexico

Well: Allison Unit #152H

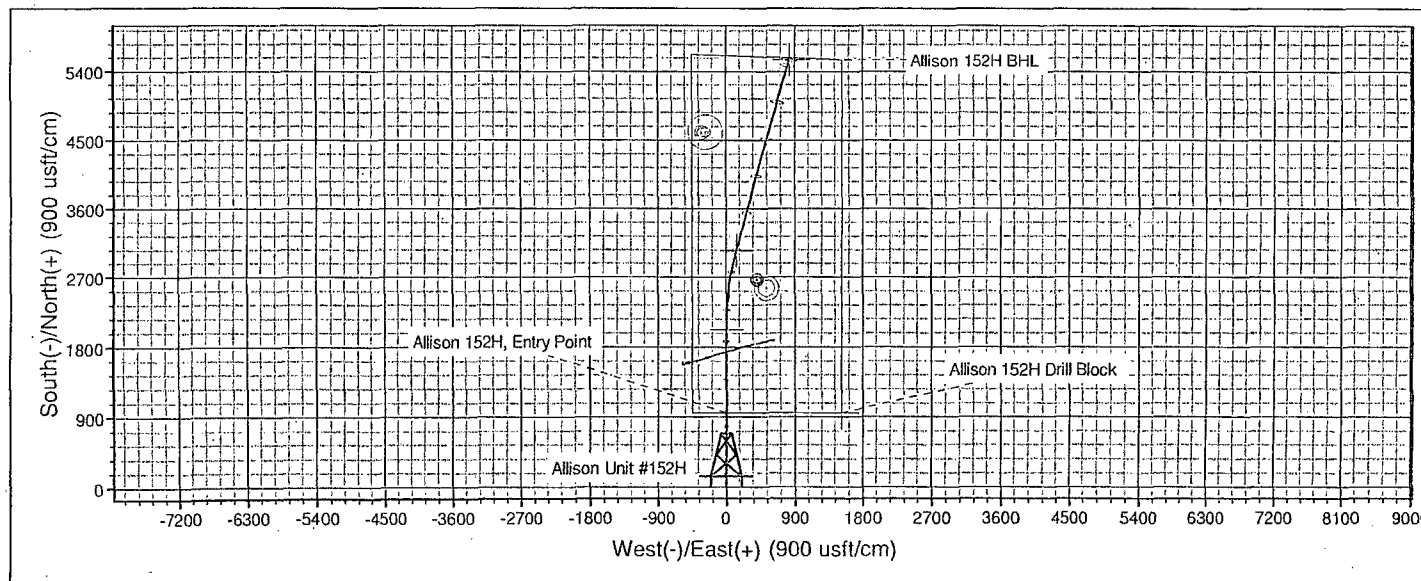
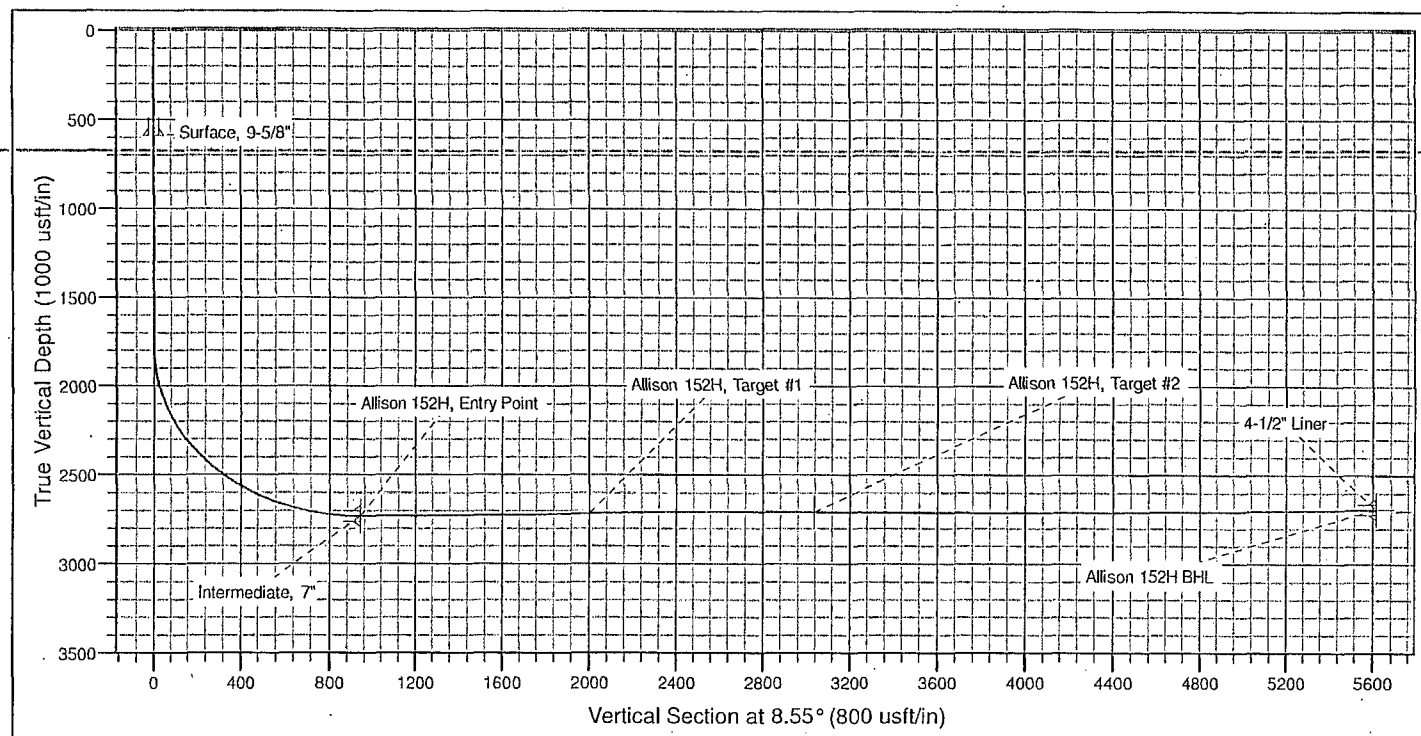
Wellbore: Wellbore #1

Design: APD Plan



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1780.0	0.00	0.00	1780.0	0.0	0.0	0.00	0.00	0.0	
3	3273.8	90.00	0.00	2730.0	950.0	0.0	6.02	0.00	939.4	
4	3274.8	90.00	0.00	2730.0	951.0	0.0	0.00	0.00	940.4	Allison 152H, Entry Point
5	4346.5	91.60	0.00	2715.0	2022.5	0.0	0.15	0.00	2000.0	Allison 152H, Target #1
6	5320.7	89.31	14.61	2707.2	2986.1	123.6	1.52	98.83	2971.3	
7	5384.3	89.31	14.61	2708.0	3047.6	139.6	0.00	0.00	3034.5	Allison 152H, Target #2
8	7984.2	91.49	16.40	2690.0	5552.6	834.6	0.11	39.29	5614.9	Allison 152H BHL



Burlington Resources Oil & Gas Company LP, a subsidiary of ConocoPhillips proposes to drill and complete the referenced horizontal well targeting a coal seam with in the Fruitland formation.

Technical Plan

1. Location

Allison Unit #152H

SHL: 891' FNL, 1,162' FWL -- T 32N, R 06W, Sec 21

BHL: 710' FNL, 1,980' FWL -- T 32N, R 06W, Sec 16

GL: 6,155'

2. Geological Markers

Anticipated formation tops with comments of any possible water, gas, or oil shows are indicated below:

Formation	Depth (TVD)	Remarks
Nacimiento	425'	
Ojo Alamo	2,000'	
Kirtland	2,115'	
Fruitland	2,530	Gas
Pictured Cliffs	3,060'	

See attached directional plan for anticipated formation tops in measure depth.

3. Pressure Control Equipment

See Attached BOPE & Choke Manifold Schematic for a diagram of pressure control equipment.

- BOPE will be nipped up on top of wellhead after surface casing is set and cemented.
- Pressure control configuration will be designed to meet the minimum 2M standards.
- All equipment will have 3M pressure ratings.
- A rotating head will be rigged up on top of annular as seen in attached diagram.

4. Casing & Cement Program

A) The proposed casing program is outlined below:

Proposed Casing				
Casing	Hole Size	Casing Size	Weight/Grade	Set Depth TVD/MD
Surface	12-1/4"	9-5/8"	32.3#, H-40, STC, New	500' TVD/MD
Intermediate	8-3/4"	7"	23.0#, L-80, LTC, New	2,730' TVD / 3,275' MD
Production Liner (pre-perforated)	6-1/4"	4-1/2"	11.6#, N/-80/L-80, BTC, New	2,690' TVD / 7984' MD

The production liner will be landed back into the intermediate casing string at a minimum of 100' overlap by means of liner hanger with a pack-off element. Production liner will be pre-perforated and left in open hole.

If the 6-1/4" hole is not drilled to total MD, the production liner setting depth and length will be adjusted accordingly.

The 7" casing string will be set across setback boundary line and within drill block.

B) The proposed cement program is shown below:

Cement Program				Planned Cement-Top
Interval	Depth (MD)	Volume	Slurry	
Surface	500'	253 ft ³	Lead Cmt: Type III Cmt 0.25% FL-52, 0.25 pps celloflake 1.25 ft ³ /sk -- 5.75 gal/sk 15.2 ppg	Surface
Intermediate	3,275'	723 ft ³	Lead Cmt: Premium Lite 3% CaCl, 0.25 pps celloflake, 5 ppm LCM-1, 0.4% FL-52, 8% Bentonite, 0.4% SMS 2.13 ft ³ /sk -- 11.29 gal/sk 12.1 ppg Tail Cmt: Type III 1% CaCl, 0.25 pps celloflake, 0.2% FL-52 1.38 ft ³ /sk -- 6.64 gal/sk 14.6 ppg	Surface
Production	7,984'	N/A	N/A – Open hole with pre-perforated liner.	N/A

Slurry additives may be adjusted as needed to accommodate required pump and compressive test times.

For the intermediate hole section a 2-stage cement job may be performed if hole conditions indicate during operations. Stage tool will be placed appropriately as conditions indicate.

C) The proposed centralizer program is shown below:

Centralizer Program	
Interval	Centralizers
Surface	1 per joint on bottom 3 joints
Intermediate	10' above shoe jnt w/ collar clamp On top of 2 nd , 4 th , 6 th , 8 th , 10 th jnts 1 every 4 th jnt (at min) to Ojo Alamo 1 Turbolizer at base of Ojo Alamo 1 every joint thru Ojo Alamo 1 Turbolizer will be placed mid way into Ojo Alamo 1 every 4 th jnt from top of Ojo Alamo up to surface shoe
	1 inside surface casing
Production	N/A

To allow adequate time for cement to achieve a minimum of 500 psi compressive strength, a minimum of 8 hours wait on cement time for each hole section will be observed. The wellhead will not be installed, casing will not be tested, and the prior casing shoe will not be drilled out until adequate wait on cement time is achieved.

5. Drilling Fluids

A) The proposed drilling fluid program is outlined below:

Mud Program			
Interval	Mud Type	Weight (ppg)	Fluid Loss (cc)
Surface	Air / Water Gel System	Air 8.3 - 9.2	NC
Intermediate	LSND / Gel System	8.4 - 9.5	6 - 16
Production	LSND Brine (if needed)*	8.5 - 10	4 - 14

*In the Production hole, Brine will be utilized only if a weighting agent is needed to raise MW (for either well control or wellbore stability purposes).

LCM may be added to the mud system if hole conditions indicate.

B) If brine is utilized, any cuttings drilled with brine will be hauled off to an approved disposal site.

6. Abnormal Pressures & Hazards

- No over-pressured intervals expected.
- Estimated Reservoir Pressure = 1,500 psi.
- Maximum Anticipated Surface Pressure = 1,300 psi

- No hydrogen sulfide gas is expected based off nearby well production.

7. Testing, Logging, Coring

- Mud Logs: Mud loggers will be rigged up from above Fruitland coal to production hole TD.
- MWD: Directional tools from KOP to production hole TD.
- LWD: Gamma Ray utilized in production hole for well placement.
- Logs: No planned open hole logs (other than the previously identified LWD logs) will be ran.
- Cased Hole Logs: If cement is not circulated to surface on intermediate cement job, a Temp Survey will be ran to verify TOC.

8. Directional Plan

The planned wellbore directional plan and plot are attached.

The planned directional plan is built off geological targets from offset wells. The production hole will be landed and drilled within target formation horizontally utilizing LWD equipment to help steer the wellbore. On site adjustments will be made to the directional plan as formation and hole indicates.

BOPE & Choke Manifold Schematic

