

DISTRICT I
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Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
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Phone: (505) 334-6179 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- 35559	² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code 6784	⁵ Property Name ALLISON UNIT	⁶ Well Number 152H
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6155'

¹⁰ Surface Location

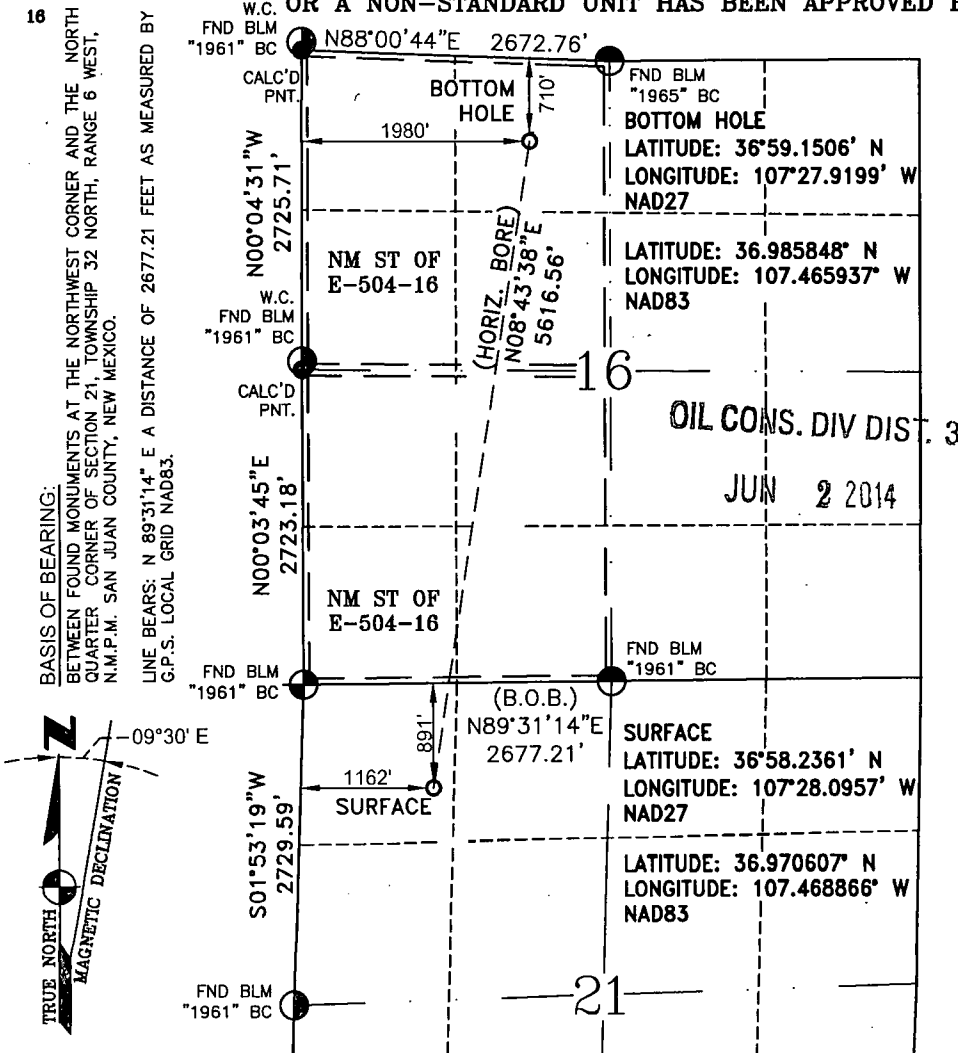
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	21	32-N	6-W		891'	NORTH	1162	WEST	SAN JUAN

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	East/West line	County
C	16	32-N	6-W		710'	NORTH	1980'	WEST	SAN JUAN

¹² Dedicated Acres FC 320.00 ACRES W/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Arleen White 5/22/14

Signature Date

Arleen White

Printed Name

arleen.r.white@conocophillips.com

E-mail Address

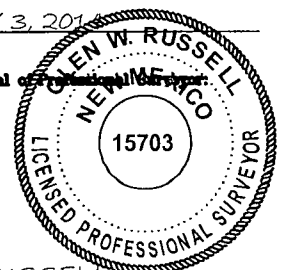
18 SURVEYOR CERTIFICATION

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.

FEBRUARY 3, 2014

Date of Survey

Signature and Seal of Glen W. Russell



GLEN W. RUSSELL

Certificate Number

15703

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

OIL CONS. DIV DIST. 3

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'

JUN 02 2014

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				
Interval	Depth (MD)	Volume	Slurry	Planned Cement Top
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

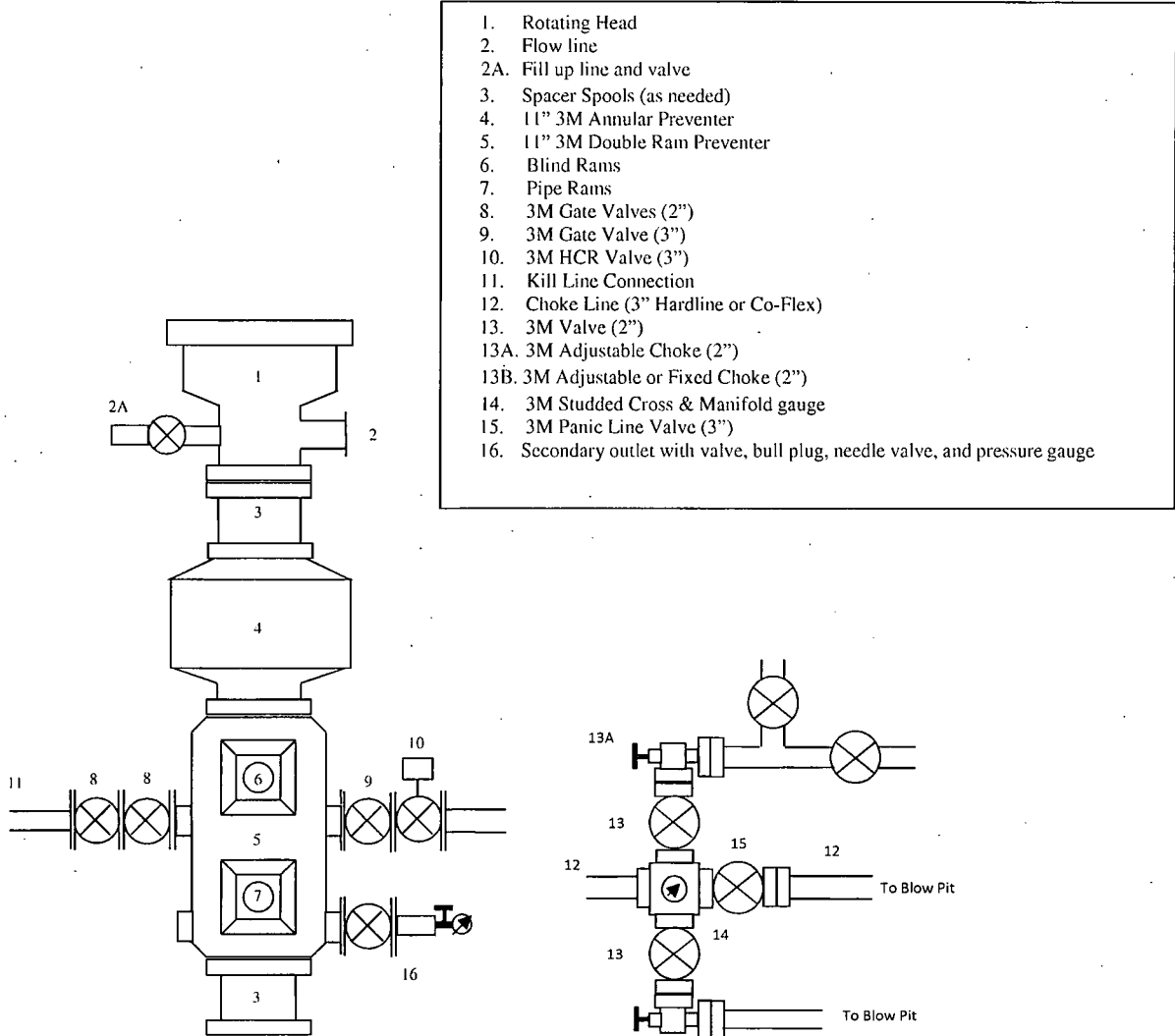
- **Mud Logs:** Mud loggers will be rigged up from above Fruitland coal to production hole TD.
- **MWD:** Directional tools from KOP to production hole TD.
- **LWD:** Gamma Ray utilized in production hole for well placement.
- **Logs:** No planned open hole logs (other than the previously identified 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



OIL CONS. DIV DIST. 3
JUN 02 2014

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

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

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

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

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
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

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		

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

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Allison Unit #152H
Company:	ConocoPhillips SJBU	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		

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	Local Co-ordinate Reference:	Well Allison Unit #152H
Company:	ConocoPhillips SJBU	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		

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	VSec	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

