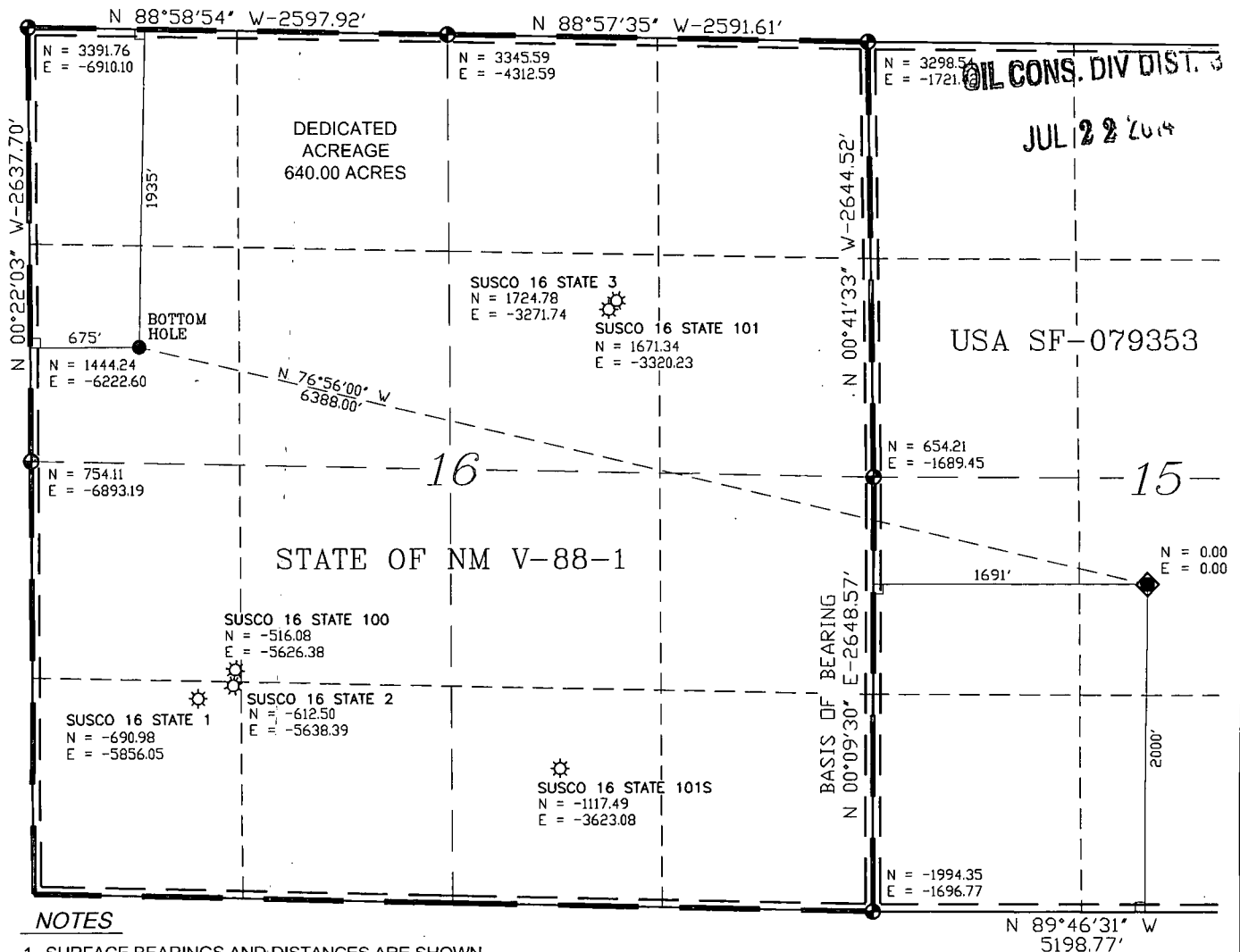


BURLINGTON RESOURCES OIL & GAS COMPANY LP
SUSCO 16 STATE 101H - 2000' FSL & 1691' FWL (SURFACE) IN SECTION 15,
1935' FNL & 675' FWL (BOTTOM HOLE) IN SECTION 16
T-32-N, R-8-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6916'



NOTES

1. SURFACE BEARINGS AND DISTANCES ARE SHOWN.
2. NORTHING & EASTING COORDINATES ARE REFERENCED TO LOCALIZED SYSTEM WITH THE SURFACE LOCATION DEFINED AS THE ORIGIN.
3. BEARINGS & DISTANCES SHOWN ARE BASED ON GPS OBSERVATIONS WITH A LOCALIZED TRANSVERSE MERCATOR PROJECTION, PROJECTED TO GROUND COORDINATES WITH THE ORIGIN AT THE WELL FLAG LOCATION.

LEGEND

-  SURFACE LOCATION
 BOTTOM HOLE LOCATION
 1962 B.L.M. BRASS CAP
 DENOTES 90° TIE

BASIS OF BEARING

MONUMENTED WEST LINE OF THE SW 1/4 OF
SEC. 15, T-32-N, R-8-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO
BEARS: N 00°09'30" E - 2648.57'



SCALE: 1" = 1000'

GEO. SURFACE VALUES

LATITUDE (NAD 83)
NORTH 36.9820159°
LONGITUDE (NAD 83)
WEST 107.6657168°



BURLINGTON
RESOURCES OIL & GAS COMPANY LP



P.O. BOX 3651
FARMINGTON, NM 87499
OFFICE: (505) 334-0408

SCALE: 1" = 1000'

JOB No. 10629

DATE: 04/28/14

**DRILLING DIAGRAM FOR
BURLINGTON RESOURCES OIL & GAS COMPANY LP
SUSCO 16 STATE 101H
SURFACE: 2000' F/SL & 1691' F/WL, SECTION 15,
BOTTOM HOLE: 1935' F/NL & 675' F/WL, SECTION 16,
T. 32 N, R. 8 W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO**

BY: H.S. DWG.#: 10629DS1

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

Technical Plan

1. Location

Susco 16 State 101H

SHL: 2000' FSL, 1,691' FWL -- T 32N, R 08W, Sec 15

BHL: 1935' FNL, 675' FWL -- T 32N, R 08W, Sec 16

GL: 6,916'

2. Geological Markers

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

Formation	Depth (TVD)	Remarks
San Jose	Surface	
Nacimiento	1,031'	
Ojo Alamo	2,431'	
Kirtland	2,571'	
Fruitland	3,231'	Gas

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	3,585' TVD / 5,007' MD
Production Liner (pre-perforated)	6-1/4"	4-1/2"	11.6#, N-80/L-80, BTC, New	3,597' TVD / 8,930' MD

8910

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	5,007' 8,930' 8910'	1107 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	8,930'	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

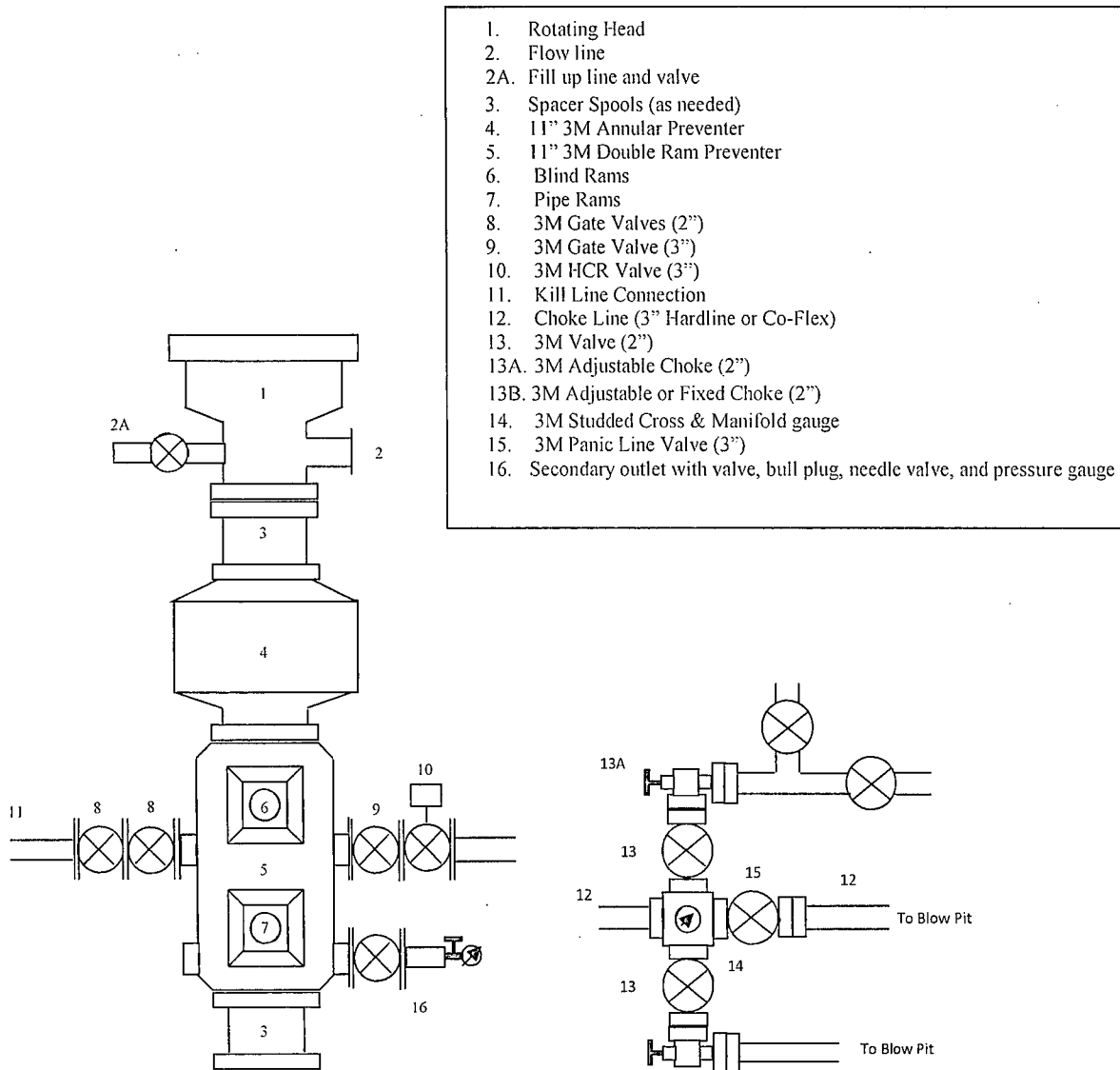
- Mud Logs: Mud loggers will be rigged up from KOP to production hole TD.
- MWD: Directional tools from KOP to production hole TD.
- LWD: Gamma Ray utilized in production hole for well placement.
- Logs: No planned open hole logs (other than the previously identified LWD logs) will be ran.
- Cased Hole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



REFERENCE INFORMATION

WELL @ 6931.0usft (Original Well Elev)
Ground Elevation 6916.0
Reference Lat: 36° 58' 55.245 N
Reference Long: 107° 39' 54.371 W

Project: San Juan Basin - New Mexico West W

Well: Other Named Wells
Susco 16 State 101H
Design: Wellbore #1
APD Plan

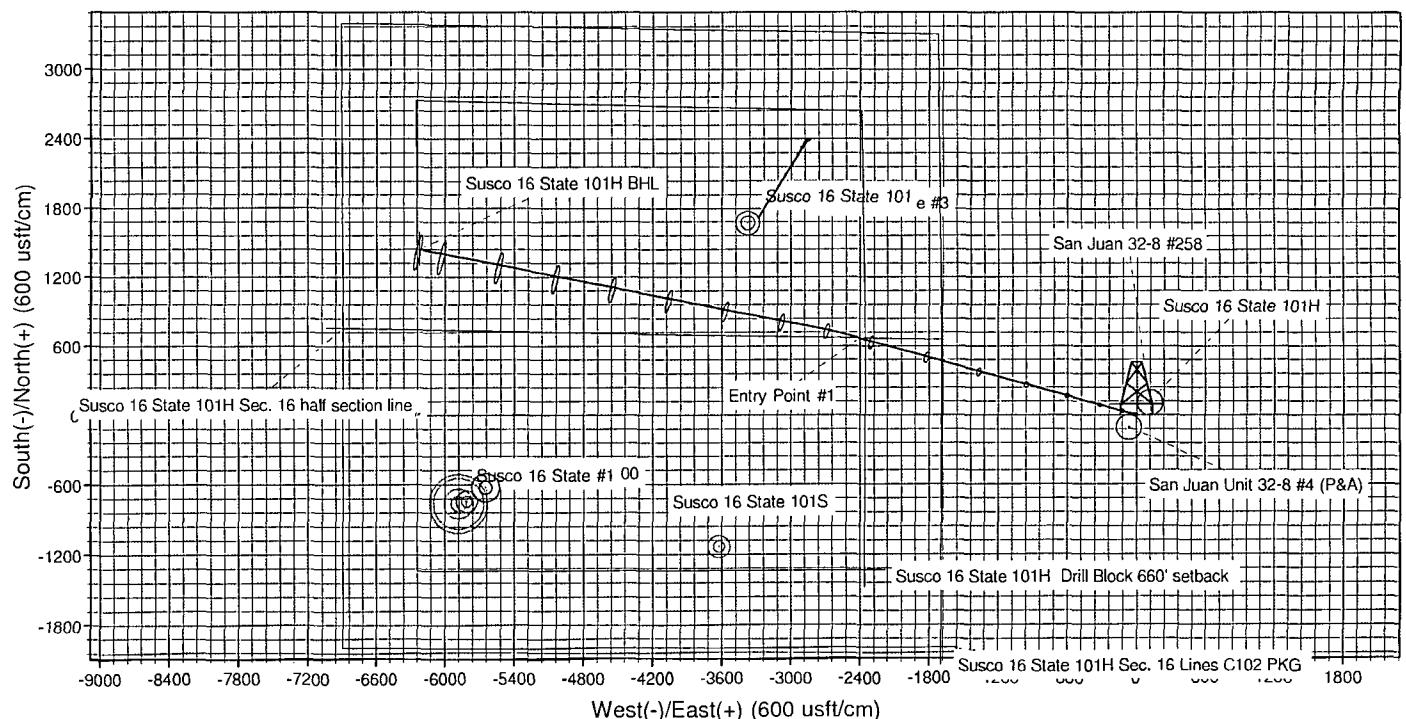
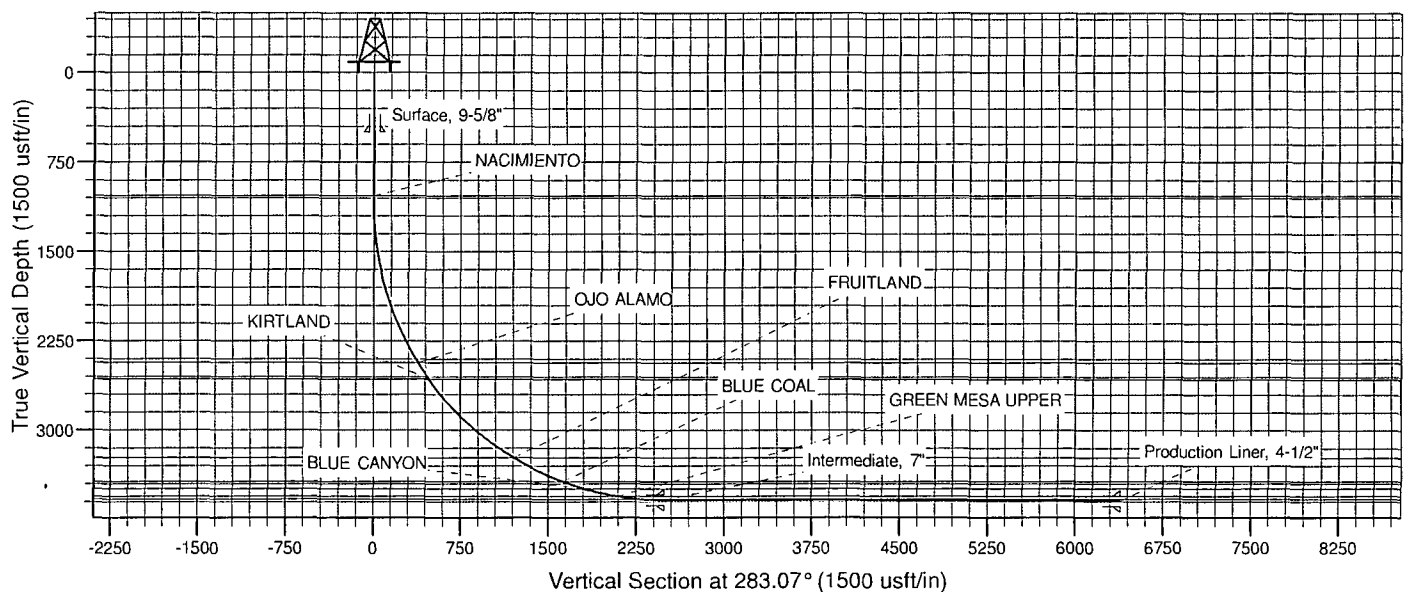
ConocoPhillips

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	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	1095.9	0.00	0.00	1095.9	0.0	0.0	0.00	0.00	0.0	
4	5007.4	90.00	285.57	3585.0	667.9	-2397.8	2.30	285.57	2486.8	
5	5008.4	90.00	285.57	3585.0	668.2	-2398.8	0.00	0.00	2487.8	Entry Point #1
6	5441.7	90.00	281.23	3585.0	768.6	-2820.3	1.00	-90.00	2921.0	Susco 16 State 101H BHL
7	8910.5	89.60	281.23	3597.0	1444.2	-6222.6	0.01	180.00	6388.0	Susco 16 State 101H BHL

OIL CONS. DIV DIST. 3

JUL 22 2014



ConocoPhillips SJB

San Juan Basin - New Mexico West Wells

Other Named Wells

Susco 16 State 101H

Wellbore #1

OIL CONS. DIV DIST. 3
JUL 22 2014

Plan: APD Plan

Standard Planning Report

17 July, 2014

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Susco 16 State 101H
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6931.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6931.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Susco 16 State 101H	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	Other Named Wells		
Site Position:		Northing:	2,108,178.26 usft
From:	Lat/Long	Easting:	643,887.63 usft
Position Uncertainty:	15.0 usft	Slot Radius:	6-1/8"
		Latitude:	36° 47' 33.793 N
		Longitude:	107° 20' 30.932 W
		Grid Convergence:	0.29 °

Well	Susco 16 State 101H		
Well Position	+N/-S	0.0 usft	Latitude: 36° 58' 55.245 N
	+E/-W	0.0 usft	Longitude: 107° 39' 54.371 W
Position Uncertainty	2.0 usft	Wellhead Elevation:	6,916.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2013	2/3/2014	9.61	63.63	50,551

Design	APD Plan			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	283.07

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,095.9	0.00	0.00	1,095.9	0.0	0.0	0.00	0.00	0.00	0.00	
5,007.4	90.00	285.57	3,585.0	667.9	-2,397.8	2.30	2.30	0.00	285.57	
5,008.4	90.00	285.57	3,585.0	668.2	-2,398.8	0.00	0.00	0.00	0.00	Entry Point #1
5,441.7	90.00	281.23	3,585.0	768.6	-2,820.3	1.00	0.00	-1.00	-90.00	Susco 16 State 101H
8,910.5	89.60	281.23	3,597.0	1,444.2	-6,222.6	0.01	-0.01	0.00	180.00	Susco 16 State 101H

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Susco 16 State 101H
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6931.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6931.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Susco 16 State 101H	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
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
1,031.0	0.00	0.00	1,031.0	0.0	0.0	0.0	0.00	0.00	0.00
NACIMIENTO									
1,095.9	0.00	0.00	1,095.9	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.09	285.57	1,100.0	0.0	0.0	0.0	2.30	2.30	0.00
1,200.0	2.40	285.57	1,200.0	0.6	-2.1	2.2	2.30	2.30	0.00
1,300.0	4.70	285.57	1,299.8	2.2	-8.1	8.4	2.30	2.30	0.00
1,400.0	7.00	285.57	1,399.2	5.0	-17.9	18.5	2.30	2.30	0.00
1,500.0	9.30	285.57	1,498.2	8.8	-31.5	32.7	2.30	2.30	0.00
1,600.0	11.60	285.57	1,596.6	13.6	-49.0	50.8	2.30	2.30	0.00
1,700.0	13.90	285.57	1,694.1	19.6	-70.3	72.9	2.30	2.30	0.00
1,800.0	16.20	285.57	1,790.7	26.5	-95.3	98.8	2.30	2.30	0.00
1,900.0	18.50	285.57	1,886.1	34.5	-124.0	128.6	2.30	2.30	0.00
2,000.0	20.80	285.57	1,980.3	43.6	-156.4	162.2	2.30	2.30	0.00
2,100.0	23.10	285.57	2,073.0	53.6	-192.4	199.5	2.30	2.30	0.00
2,200.0	25.41	285.57	2,164.2	64.6	-232.0	240.6	2.30	2.30	0.00
2,300.0	27.71	285.57	2,253.6	76.6	-275.0	285.2	2.30	2.30	0.00
2,400.0	30.01	285.57	2,341.2	89.6	-321.5	333.4	2.30	2.30	0.00
2,500.0	32.31	285.57	2,426.8	103.4	-371.4	385.1	2.30	2.30	0.00
2,505.0	32.42	285.57	2,431.0	104.2	-373.9	387.8	2.30	2.30	0.00
OJO ALAMO									
2,600.0	34.61	285.57	2,510.2	118.2	-424.5	440.2	2.30	2.30	0.00
2,674.7	36.33	285.57	2,571.0	129.9	-466.2	483.5	2.30	2.30	0.00
KIRTLAND									
2,700.0	36.91	285.57	2,591.3	133.9	-480.8	498.6	2.30	2.30	0.00
2,800.0	39.21	285.57	2,670.1	150.5	-540.1	560.2	2.30	2.30	0.00
2,900.0	41.51	285.57	2,746.3	167.8	-602.5	624.9	2.30	2.30	0.00
3,000.0	43.81	285.57	2,819.8	186.0	-667.8	692.6	2.30	2.30	0.00
3,100.0	46.11	285.57	2,890.5	205.0	-735.9	763.2	2.30	2.30	0.00
3,200.0	48.41	285.57	2,958.4	224.7	-806.6	836.5	2.30	2.30	0.00
3,300.0	50.72	285.57	3,023.3	245.1	-879.9	912.6	2.30	2.30	0.00
3,400.0	53.02	285.57	3,085.0	266.2	-955.7	991.1	2.30	2.30	0.00
3,500.0	55.32	285.57	3,143.5	288.0	-1,033.8	1,072.1	2.30	2.30	0.00
3,600.0	57.62	285.57	3,198.8	310.3	-1,114.1	1,155.4	2.30	2.30	0.00
3,661.4	59.03	285.57	3,231.0	324.4	-1,164.4	1,207.6	2.30	2.30	0.00
FRUITLAND									
3,700.0	59.92	285.57	3,250.6	333.3	-1,196.5	1,240.8	2.30	2.30	0.00
3,800.0	62.22	285.57	3,299.0	356.8	-1,280.8	1,328.3	2.30	2.30	0.00
3,900.0	64.52	285.57	3,343.8	380.7	-1,366.9	1,417.6	2.30	2.30	0.00
4,000.0	66.82	285.57	3,385.0	405.2	-1,454.6	1,508.6	2.30	2.30	0.00
4,100.0	69.12	285.57	3,422.5	430.1	-1,543.9	1,601.2	2.30	2.30	0.00
4,124.1	69.68	285.57	3,431.0	436.1	-1,565.7	1,623.8	2.30	2.30	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Susco 16 State 101H
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6931.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6931.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Susco 16 State 101H	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)
BLUE COAL									
4,200.0	71.42	285.57	3,456.3	455.3	-1,634.6	1,695.2	2.30	2.30	0.00
4,300.0	73.72	285.57	3,486.2	480.9	-1,726.5	1,790.5	2.30	2.30	0.00
4,317.3	74.12	285.57	3,491.0	485.4	-1,742.5	1,807.2	2.30	2.30	0.00
BLUE CANYON									
4,400.0	76.03	285.57	3,512.3	506.8	-1,819.5	1,887.0	2.30	2.30	0.00
4,500.0	78.33	285.57	3,534.5	533.0	-1,913.4	1,984.4	2.30	2.30	0.00
4,600.0	80.63	285.57	3,552.8	559.4	-2,008.1	2,082.6	2.30	2.30	0.00
4,614.0	80.95	285.57	3,555.0	563.1	-2,021.5	2,096.4	2.30	2.30	0.00
GREEN MESA UPPER									
4,700.0	82.93	285.57	3,567.1	585.9	-2,103.5	2,181.5	2.30	2.30	0.00
4,800.0	85.23	285.57	3,577.4	612.6	-2,199.3	2,280.8	2.30	2.30	0.00
4,820.6	85.70	285.57	3,579.0	618.1	-2,219.1	2,301.4	2.30	2.30	0.00
BIG BLUE									
4,900.0	87.53	285.57	3,583.7	639.4	-2,295.4	2,380.5	2.30	2.30	0.00
5,007.4	90.00	285.57	3,585.0	667.9	-2,397.8	2,486.8	2.30	2.30	0.00
Intermediate, 7"									
5,008.4	90.00	285.57	3,585.0	668.2	-2,398.8	2,487.8	0.00	0.00	0.00
5,100.0	90.00	284.65	3,585.0	692.1	-2,487.3	2,579.3	1.00	0.00	-1.00
5,200.0	90.00	283.65	3,585.0	716.5	-2,584.2	2,679.3	1.00	0.00	-1.00
5,300.0	90.00	282.65	3,585.0	739.3	-2,681.6	2,779.3	1.00	0.00	-1.00
5,400.0	90.00	281.65	3,585.0	760.3	-2,779.4	2,879.3	1.00	0.00	-1.00
5,441.7	90.00	281.23	3,585.0	768.6	-2,820.3	2,921.0	1.00	0.00	-1.00
5,500.0	89.99	281.23	3,585.0	779.9	-2,877.4	2,979.3	0.01	-0.01	0.00
5,600.0	89.98	281.23	3,585.0	799.4	-2,975.5	3,079.2	0.01	-0.01	0.00
5,700.0	89.97	281.23	3,585.1	818.9	-3,073.6	3,179.2	0.01	-0.01	0.00
5,800.0	89.96	281.23	3,585.1	838.4	-3,171.7	3,279.1	0.01	-0.01	0.00
5,900.0	89.95	281.23	3,585.2	857.9	-3,269.8	3,379.1	0.01	-0.01	0.00
6,000.0	89.94	281.23	3,585.3	877.3	-3,367.9	3,479.0	0.01	-0.01	0.00
6,100.0	89.92	281.23	3,585.4	896.8	-3,465.9	3,579.0	0.01	-0.01	0.00
6,200.0	89.91	281.23	3,585.6	916.3	-3,564.0	3,678.9	0.01	-0.01	0.00
6,300.0	89.90	281.23	3,585.7	935.8	-3,662.1	3,778.9	0.01	-0.01	0.00
6,400.0	89.89	281.23	3,585.9	955.3	-3,760.2	3,878.8	0.01	-0.01	0.00
6,500.0	89.88	281.23	3,586.1	974.7	-3,858.3	3,978.8	0.01	-0.01	0.00
6,600.0	89.87	281.23	3,586.3	994.2	-3,956.4	4,078.7	0.01	-0.01	0.00
6,700.0	89.86	281.23	3,586.6	1,013.7	-4,054.4	4,178.6	0.01	-0.01	0.00
6,800.0	89.84	281.23	3,586.8	1,033.2	-4,152.5	4,278.6	0.01	-0.01	0.00
6,900.0	89.83	281.23	3,587.1	1,052.6	-4,250.6	4,378.5	0.01	-0.01	0.00
7,000.0	89.82	281.23	3,587.4	1,072.1	-4,348.7	4,478.5	0.01	-0.01	0.00
7,100.0	89.81	281.23	3,587.7	1,091.6	-4,446.8	4,578.4	0.01	-0.01	0.00
7,200.0	89.80	281.23	3,588.1	1,111.1	-4,544.9	4,678.4	0.01	-0.01	0.00
7,300.0	89.79	281.23	3,588.4	1,130.6	-4,643.0	4,778.3	0.01	-0.01	0.00
7,400.0	89.78	281.23	3,588.8	1,150.0	-4,741.0	4,878.3	0.01	-0.01	0.00
7,500.0	89.76	281.23	3,589.2	1,169.5	-4,839.1	4,978.2	0.01	-0.01	0.00
7,600.0	89.75	281.23	3,589.6	1,189.0	-4,937.2	5,078.2	0.01	-0.01	0.00
7,700.0	89.74	281.23	3,590.1	1,208.5	-5,035.3	5,178.1	0.01	-0.01	0.00
7,800.0	89.73	281.23	3,590.5	1,227.9	-5,133.4	5,278.1	0.01	-0.01	0.00
7,900.0	89.72	281.23	3,591.0	1,247.4	-5,231.5	5,378.0	0.01	-0.01	0.00
8,000.0	89.71	281.23	3,591.5	1,266.9	-5,329.5	5,478.0	0.01	-0.01	0.00
8,100.0	89.70	281.23	3,592.0	1,286.4	-5,427.6	5,577.9	0.01	-0.01	0.00
8,200.0	89.68	281.23	3,592.6	1,305.8	-5,525.7	5,677.9	0.01	-0.01	0.00
8,300.0	89.67	281.23	3,593.1	1,325.3	-5,623.8	5,777.8	0.01	-0.01	0.00
8,400.0	89.66	281.23	3,593.7	1,344.8	-5,721.9	5,877.8	0.01	-0.01	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Susco 16 State 101H
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6931.0usft (Original Well Elev)
Project:	San Juan Basin- New Mexico West Wells	MD Reference:	WELL @ 6931.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Susco 16 State 101H	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)
8,500.0	89.65	281.23	3,594.3	1,364.3	-5,820.0	5,977.7	0.01	-0.01	0.00
8,600.0	89.64	281.23	3,594.9	1,383.8	-5,918.0	6,077.7	0.01	-0.01	0.00
8,700.0	89.63	281.23	3,595.6	1,403.2	-6,016.1	6,177.6	0.01	-0.01	0.00
8,800.0	89.62	281.23	3,596.2	1,422.7	-6,114.2	6,277.5	0.01	-0.01	0.00
8,900.0	89.60	281.23	3,596.9	1,442.2	-6,212.3	6,377.5	0.01	-0.01	0.00
8,910.5	89.60	281.23	3,597.0	1,444.2	-6,222.6	6,388.0	0.01	-0.01	0.00
Production Liner, 4-1/2"									

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Susco 16 State 101H Se	0.00	0.00	2,996.0	754.2	-6,893.7	2,177,518.65	542,244.17	36° 59' 2.814 N	107° 41' 19.317 W
- plan misses target center by 1134.8usft at 8910.5usft MD (3597.0 TVD, 1444.2 N, -6222.6 E)									
- Polygon									
Point 1			2,996.0	0.0	0.0	2,177,518.65	542,244.17		
Point 2			2,996.0	-99.9	5,204.2	2,177,418.76	547,447.95		
Entry Point #1	0.00	0.00	3,585.0	668.2	-2,398.8	2,177,432.69	546,738.76	36° 59' 1.893 N	107° 40' 23.921 W
- plan hits target center									
- Point									
Susco 16 State 101H Bf	0.00	0.00	3,597.0	1,444.2	-6,222.6	2,178,208.66	542,915.26	36° 59' 9.627 N	107° 41' 11.032 W
- plan hits target center									
- Point									
Susco 16 State 101H Se	0.00	0.00	2,996.0	-1,994.5	-1,696.9	2,174,770.19	547,440.59	36° 58' 35.553 N	107° 40' 15.326 W
- plan misses target center by 2380.6usft at 3435.0usft MD (3105.8 TVD, 273.7 N, -982.7 E)									
- Polygon									
Point 1			2,996.0	0.0	0.0	2,174,770.19	547,440.59		
Point 2			2,996.0	2,648.8	7.3	2,177,418.78	547,447.89		
Point 3			2,996.0	5,293.3	-24.7	2,180,063.06	547,415.89		
Point 4			2,996.0	5,386.5	-5,213.8	2,180,156.26	542,227.21		
Point 5			2,996.0	2,748.7	-5,196.8	2,177,518.67	542,244.21		
Point 6			2,996.0	-5.7	-5,200.8	2,174,764.49	542,240.21		
Susco 16 State 101H D	0.00	0.00	2,996.0	-1,334.5	-2,357.0	2,175,430.19	546,780.59	36° 58' 42.090 N	107° 40' 23.447 W
- plan misses target center by 1983.1usft at 4267.9usft MD (3477.0 TVD, 472.7 N, -1696.9 E)									
- Polygon									
Point 1			2,996.0	0.0	0.0	2,175,430.19	546,780.59		
Point 2			2,996.0	-5.7	-3,880.7	2,175,424.49	542,900.20		
Point 3			2,996.0	2,088.6	-3,876.7	2,177,518.62	542,904.20		
Point 4			2,996.0	4,066.4	-3,893.6	2,179,496.26	542,887.30		
Point 5			2,996.0	3,973.2	-24.7	2,179,403.07	546,755.89		
Point 6			2,996.0	1,988.7	7.3	2,177,418.73	546,787.89		

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
5,007.4	3,585.0	Intermediate, 7"	7	8-3/4
8,910.5	3,597.0	Production Liner, 4-1/2"	4-1/2	6-1/4

ConocoPhillips Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Susco 16 State 101H
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6931.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6931.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Susco 16 State 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Plan		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,317.3	3,491.0	BLUE CANYON		0.00		
3,661.4	3,231.0	FRUITLAND		0.00		
4,124.1	3,431.0	BLUE COAL		0.00		
4,614.0	3,555.0	GREEN MESA UPPER		0.00		
4,820.6	3,579.0	BIG BLUE		0.00		
1,031.0	1,031.0	NACIMIENTO		0.00		
2,674.7	2,571.0	KIRTLAND		0.00		
2,505.0	2,431.0	OJO ALAMO		0.00		