

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-3 APD form.

Operator Signature Date: 4/28/14

Well information;

Operator Burlington Res., Well Name and Number San Juan 28-5 Unit #42P

API# 30-039-31238, Section 1, Township 27 NS, Range 6 EW

Conditions of Approval:

(See the below checked and handwritten conditions)

- ☒ Notify Aztec OCD 24hrs prior to casing & cement.
- ☒ Hold C-104 for directional survey & "As Drilled" Plat
- ☐ Hold C-104 for NSL, NSP, DHC
- ☐ Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- ☐ Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:
 - A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A
 - A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A
 - A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C
- ☐ Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
- ☐ Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.

Chonlithorn
NMOCD Approved by Signature

6-20-2014
Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

APR 28 2014

1a. Type of Work DRILL	5. Lease Number SF-079521-A Farmington Field Office Unit Reporting Number NMN178411B	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name San Juan 28-5 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name San Juan 28-5 Unit 9. Well Number 42P	
4. Location of Well Surface: Unit A(NENE), 504' FNL & 160' FEL BHL : Unit M(SWSW), 710' FSL & 710' FWL Surface: Latitude: 36.60917° N (NAD83) Longitude: 107.41003° W BHL : Latitude: 36.61250° N (NAD83) Longitude: 107.40706° W	10. Field, Pool, Wildcat BLANCO MV/BASIN DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 1, T27N, R6W Sec. 31, T28N, R5W API # 30-039-31238	
14. Distance in Miles from Nearest Town 35 mi from Blanco, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710' Acres in Lease 1919.280	17. Acres Assigned to Well 320-0-319.28	
Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 760' - San Juan 28-6 Unit 7N Proposed Depth 7750'	20. Rotary or Cable Tools Rotary	
Elevations (DF, FT, GR, Etc) 6509' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	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	
24. Authorized by: <u>Denise Journey</u> (Regulatory Technician)	Date: <u>4/20/14</u>	

PERMIT NO. _____ APPROVAL DATE 6/16/2014
APPROVED BY Troy Salyers TITLE PE (Acting AFM) DATE 6/16/2014

Archaeological Report attached A gas recovery unit may or may not be used on this location.
Threatened and Endangered Species Report attached
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.

Example Master Plan Type 3 Bond Numbers NMB-000015 and NMB-000089

NMOC
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DRILLING OPERATIONS
AUTHORIZED ARE SUBJECT TO
COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

DRILLING OPERATIONS
AUTHORIZED ARE SUBJECT TO
COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

DISTRICT 1
1025 N. French St., Boston, MA 02246
Phone: (617) 668-3161 Fax: (617) 668-0711

State of New Mexico
Energy, Minerals & Natural Resources Department

APR 28 2014

Form C-108
Revised August 3, 2011

DISTRICT I
611 E. First St., Austin, TX 78706
Phone: (512) 742-1268 Fax: (512) 742-5123

DIRECTOR
1040 E. Duane Rd., Annapolis, MD 21403
Phone: (410) 294-2170 Fax: (410) 294-2170

DISTRICT V
1850 S. E. Francis Dr., Santa Fe, NM 87503
Phone: (505) 472-5463 Fax: (505) 472-5460

ON CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87606

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-039- 31238	'Pool Code 72319/71599	'Pool Name BLANCO MESAVERDE / BASIN DAKOTA
'Property Code 7460	'Property Name SAN JUAN 28-5 UNIT	'Well Number 42P
'CORD No. 14538	'Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	'Location 6909'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	1	27N	6W	1		504'	NORTH	160'	EAST	RIO ARriba

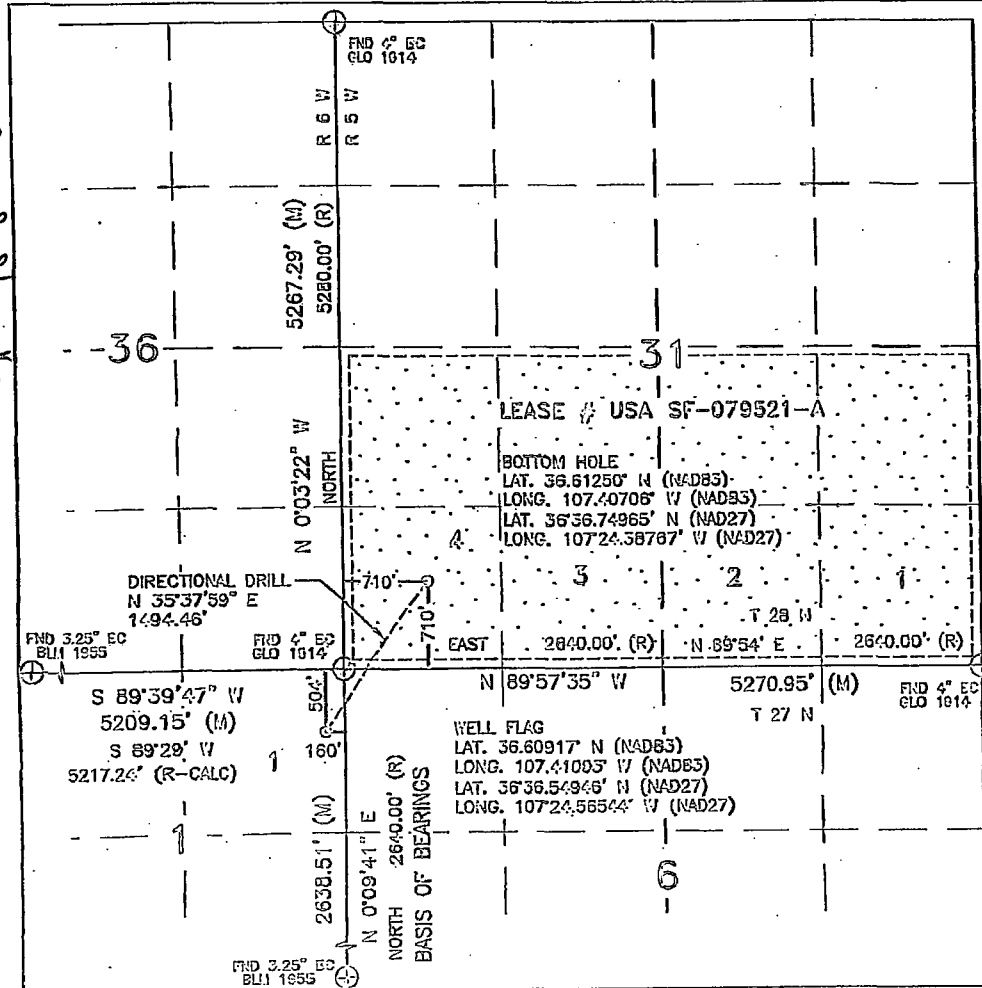
12 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot	East from the	North/South Line	East from the	East/West Line	County
M	31	28N	5W	4	710'	SOUTH	710'	WEST	RIO ARriba

¹⁰ Dedicated Acres 319.28 320.00 ACRES - S/2	¹¹ Joint or Infill	¹⁴ Consolidation Code	¹² 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

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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 a leased 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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

Queen White 2/3/14

Arleen White
Printed Name

arleen.r.white@conocophillips.com
E-mail Address

1B 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.

JULY 27, 2011

Date of Survey _____

Signature and Seal of Professional Surveyor:

DAVID R. RUSSELL
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
10201

Confidentiality Number

10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-5 UNIT 42P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.3048				AFE \$:	
Field Name: SAN JUAN		Rig: 2014 Pushing Rig 2 (MV/DK)		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.609161	Longitude: -107.409427	X:	Y:	Section: 01		Range: 006W	
Footage X: 160 FEL	Footage Y: 504 FNL	Elevation: 6509	(FT)	Township: 027N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.612491	Longitude: -107.406457	X:	Y:	Section: 31		Range: 005W	
Footage X: 710 FWL	Footage Y: 710 FSL	Elevation:	(FT)	Township: 028N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2014		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6524 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6324		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121cuft. Circulate cement to surface.
NACIMIENTO	1186	5338		☐			
OJO ALAMO	2606	3918		☐			
KIRTLAND	2753	3771		☐			
FRUITLAND	2907	3617		☐			Possible Gas
PICTURED CLIFFS	3302	3222		☐			
LEWIS	3470	3054		☐			
CHACRA	4256	2268		☐			
Intermediate Casing	4435	2089		☐	121	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1068 cuft. Circulate cement to surface.	
MASSIVE CLIFF HOUSE	4984	1540		☐	651		Gas; Cliffhouse is dry
MENEFEE	5156	1368		☐			
POINT LOOKOUT	5538	986		☐			
MANCOS	5983	541		☐			
UPPER GALLUP	6673	-149		☐			
GREENHORN	7418	-894		☐			
GRANEROS	7476	-952		☐			
TWO WELLS	7509	-985		☐	2135		Gas
PAGUATE	7611	-1087		☐			
UPPER CUBERO	7620	-1096		☐			
LOWER CUBERO	7663	-1139		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-5 UNIT 42P

DEVELOPMENT

Total Depth	7750	-1226	☐	200	6-1/4" hole, 4-1/2" 11.6 ppf, N/L-80, LTC/BTC casing. Cement w/ 437 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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ENCINAL	7750	-1226	☐		TD at the top of Encinal w/ est bottom perf 16' from TD.
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Reference Wells:

Reference Type	Well Name	Comments
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Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Mud log from ~100' above the Upper Gallup to TD. Mud loggers will call final TD. Est. bottom perf 16' from TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips SJB

San Juan Basin - New Mexico Central Wells

San Juan 28 Wells

San Juan 28-5 Unit #42P

Wellbore #1

Plan: Design #1

Standard Planning Report

27 February, 2014

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well San Juan 28-5 Unit #42P
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6524.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 6524.0usft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	San Juan 28-5 Unit #42P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	San Juan Basin - New Mexico Central Wells, New Mexico, Directional "S"		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico Central 3002		Using geodetic scale factor

Site	San Juan 28 Wells, Township 28				
Site Position:		Northing:	2,045,688.53 usft	Latitude:	36° 36' 58.001 N
From:	Lat/Long	Easting:	147,261.04 usft	Longitude:	107° 27' 6.935 W
Position Uncertainty:	3.5 usft	Slot Radius:	6-1/8"	Grid Convergence:	-0.72 °

Well	San Juan 28-5 Unit #42P					
Well Position	+N/-S	0.0 usft	Northing:	2,043,003.67 usft	Latitude:	36° 36' 32.968 N
	+E/-W	0.0 usft	Easting:	159,704.51 usft	Longitude:	107° 24' 33.926 W
Position Uncertainty		2.5 usft	Wellhead Elevation:	usft	Ground Level:	6,509.0 usft

Wellbore	Wellbore #1					
Magnetics:	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	BGGM2013	2/26/2014	9.45	63.36	50,370	

Design	Design #1				
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	35.60	

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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,300.0	25.00	35.60	1,268.6	174.6	125.0	2.50	2.50	0.00	35.60	
3,903.4	25.00	35.60	3,628.1	1,069.2	765.5	0.00	0.00	0.00	0.00	
4,736.8	0.00	0.00	4,435.2	1,214.7	869.6	3.00	-3.00	0.00	180.00	
8,051.5	0.00	0.00	7,750.0	1,214.7	869.6	0.00	0.00	0.00	0.00	SJ 28-5 Unit #42P BH

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well San Juan 28-5 Unit #42P
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6524.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 6524.0usft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	San Juan 28-5 Unit #42P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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
Surface - 9-5/8"									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	2.50	35.60	400.0	1.8	1.3	2.2	2.50	2.50	0.00
500.0	5.00	35.60	499.7	7.1	5.1	8.7	2.50	2.50	0.00
600.0	7.50	35.60	599.1	15.9	11.4	19.6	2.50	2.50	0.00
700.0	10.00	35.60	698.0	28.3	20.3	34.8	2.50	2.50	0.00
800.0	12.50	35.60	796.0	44.2	31.6	54.3	2.50	2.50	0.00
900.0	15.00	35.60	893.2	63.5	45.5	78.1	2.50	2.50	0.00
1,000.0	17.50	35.60	989.2	86.2	61.7	106.1	2.50	2.50	0.00
1,100.0	20.00	35.60	1,083.9	112.4	80.5	138.2	2.50	2.50	0.00
1,200.0	22.50	35.60	1,177.0	141.9	101.6	174.5	2.50	2.50	0.00
1,209.7	22.74	35.60	1,186.0	144.9	103.7	178.2	2.50	2.50	0.00
NACIMIENTO									
1,300.0	25.00	35.60	1,268.6	174.6	125.0	214.7	2.50	2.50	0.00
1,400.0	25.00	35.60	1,359.2	209.0	149.6	257.0	0.00	0.00	0.00
1,500.0	25.00	35.60	1,449.8	243.3	174.2	299.3	0.00	0.00	0.00
1,600.0	25.00	35.60	1,540.5	277.7	198.8	341.5	0.00	0.00	0.00
1,700.0	25.00	35.60	1,631.1	312.1	223.4	383.8	0.00	0.00	0.00
1,800.0	25.00	35.60	1,721.7	346.4	248.0	426.0	0.00	0.00	0.00
1,900.0	25.00	35.60	1,812.4	380.8	272.6	468.3	0.00	0.00	0.00
2,000.0	25.00	35.60	1,903.0	415.1	297.2	510.6	0.00	0.00	0.00
2,100.0	25.00	35.60	1,993.6	449.5	321.8	552.8	0.00	0.00	0.00
2,200.0	25.00	35.60	2,084.2	483.9	346.4	595.1	0.00	0.00	0.00
2,300.0	25.00	35.60	2,174.9	518.2	371.0	637.3	0.00	0.00	0.00
2,400.0	25.00	35.60	2,265.5	552.6	395.6	679.6	0.00	0.00	0.00
2,500.0	25.00	35.60	2,356.1	587.0	420.2	721.9	0.00	0.00	0.00
2,600.0	25.00	35.60	2,446.8	621.3	444.8	764.1	0.00	0.00	0.00
2,700.0	25.00	35.60	2,537.4	655.7	469.4	806.4	0.00	0.00	0.00
2,775.7	25.00	35.60	2,606.0	681.7	488.0	838.4	0.00	0.00	0.00
OJO ALAMO									
2,800.0	25.00	35.60	2,628.0	690.0	494.0	848.7	0.00	0.00	0.00
2,900.0	25.00	35.60	2,718.7	724.4	518.6	890.9	0.00	0.00	0.00
2,937.9	25.00	35.60	2,753.0	737.4	527.9	906.9	0.00	0.00	0.00
KIRTLAND									
3,000.0	25.00	35.60	2,809.3	758.8	543.2	933.2	0.00	0.00	0.00
3,100.0	25.00	35.60	2,899.9	793.1	567.8	975.4	0.00	0.00	0.00
3,107.8	25.00	35.60	2,907.0	795.8	569.7	978.7	0.00	0.00	0.00
FRUITLAND									
3,200.0	25.00	35.60	2,990.6	827.5	592.4	1,017.7	0.00	0.00	0.00
3,300.0	25.00	35.60	3,081.2	861.9	617.0	1,060.0	0.00	0.00	0.00
3,400.0	25.00	35.60	3,171.8	896.2	641.6	1,102.2	0.00	0.00	0.00
3,500.0	25.00	35.60	3,262.4	930.6	666.2	1,144.5	0.00	0.00	0.00
3,543.6	25.00	35.60	3,302.0	945.6	677.0	1,162.9	0.00	0.00	0.00
PICTURED CLIFFS									
3,600.0	25.00	35.60	3,353.1	965.0	690.8	1,186.7	0.00	0.00	0.00
3,700.0	25.00	35.60	3,443.7	999.3	715.4	1,229.0	0.00	0.00	0.00
3,729.0	25.00	35.60	3,470.0	1,009.3	722.6	1,241.3	0.00	0.00	0.00
LEWIS									
3,800.0	25.00	35.60	3,534.3	1,033.7	740.0	1,271.3	0.00	0.00	0.00
3,903.4	25.00	35.60	3,628.1	1,069.2	765.5	1,315.0	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well San Juan 28-5 Unit #42P
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6524.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 6524.0usft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	San Juan 28-5 Unit #42P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)	
4,000.0	22.10	35.60	3,716.6	1,100.6	787.9	1,353.6	3.00	-3.00	0.00	
4,100.0	19.10	35.60	3,810.2	1,129.2	808.4	1,388.8	3.00	-3.00	0.00	
4,200.0	16.10	35.60	3,905.5	1,153.8	826.0	1,419.0	3.00	-3.00	0.00	
4,300.0	13.10	35.60	4,002.3	1,174.3	840.7	1,444.2	3.00	-3.00	0.00	
4,400.0	10.10	35.60	4,100.2	1,190.6	852.4	1,464.3	3.00	-3.00	0.00	
4,500.0	7.10	35.60	4,199.1	1,202.8	861.1	1,479.3	3.00	-3.00	0.00	
4,557.3	5.38	35.60	4,256.0	1,207.9	864.7	1,485.5	3.00	-3.00	0.00	
CHACRA										
4,600.0	4.10	35.60	4,298.6	1,210.7	866.8	1,489.0	3.00	-3.00	0.00	
4,700.0	1.10	35.60	4,398.5	1,214.4	869.4	1,493.6	3.00	-3.00	0.00	
4,736.7	0.00	35.60	4,435.2	1,214.7	869.6	1,493.9	3.00	-3.00	0.00	
Intermediate - 7"										
4,800.0	0.00	0.00	4,498.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,598.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
5,000.0	0.00	0.00	4,698.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
5,100.0	0.00	0.00	4,798.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
5,200.0	0.00	0.00	4,898.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
5,285.5	0.00	0.00	4,984.0	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
MASSIVE CLIFF HOUSE										
5,300.0	0.00	0.00	4,998.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,098.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
5,457.5	0.00	0.00	5,156.0	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
MENELEE										
5,500.0	0.00	0.00	5,198.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,298.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,398.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,498.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
5,839.5	0.00	0.00	5,538.0	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
POINT LOOKOUT										
5,900.0	0.00	0.00	5,598.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,698.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
6,100.0	0.00	0.00	5,798.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
6,200.0	0.00	0.00	5,898.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
6,284.5	0.00	0.00	5,983.0	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
MANCOS										
6,300.0	0.00	0.00	5,998.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,098.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,198.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,298.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,398.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,498.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,598.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
6,974.5	0.00	0.00	6,673.0	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
UPPER GALLUP										
7,000.0	0.00	0.00	6,698.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
7,100.0	0.00	0.00	6,798.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
7,200.0	0.00	0.00	6,898.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
7,300.0	0.00	0.00	6,998.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,098.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,198.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,298.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,398.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00	
7,719.5	0.00	0.00	7,418.0	1,214.7	869.6	1,493.9	0.00	0.00	0.00	

ConocoPhillips Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well San Juan 28-5 Unit #42P
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6524.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 6524.0usft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	San Juan 28-5 Unit #42P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)
GREENHORN									
7,777.5	0.00	0.00	7,476.0	1,214.7	869.6	1,493.9	0.00	0.00	0.00
GRANEROS									
7,800.0	0.00	0.00	7,498.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00
7,810.5	0.00	0.00	7,509.0	1,214.7	869.6	1,493.9	0.00	0.00	0.00
TWO WELLS									
7,900.0	0.00	0.00	7,598.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00
7,912.5	0.00	0.00	7,611.0	1,214.7	869.6	1,493.9	0.00	0.00	0.00
PAGUATE									
7,921.5	0.00	0.00	7,620.0	1,214.7	869.6	1,493.9	0.00	0.00	0.00
UPPER CUBERO									
7,964.5	0.00	0.00	7,663.0	1,214.7	869.6	1,493.9	0.00	0.00	0.00
LOWER CUBERO									
8,000.0	0.00	0.00	7,698.5	1,214.7	869.6	1,493.9	0.00	0.00	0.00
8,051.5	0.00	0.00	7,750.0	1,214.7	869.6	1,493.9	0.00	0.00	0.00
ENCINAL - Production - 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									
SJ 28-5 Unit #42P BHL	0.00	0.00	7,750.0	1,214.7	869.6	2,044,207.85	160,588.76	36° 36' 44.979 N	107° 24' 23.260 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
200.0	200.0	Surface - 9-5/8"	9-5/8	12-1/4	
4,736.7	4,435.2	Intermediate - 7"	7	8-3/4	
8,051.5	7,750.0	Production - 4-1/2"	4-1/2	6-1/4	

ConocoPhillips Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well San Juan 28-5 Unit #42P
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6524.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 6524.0usft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	San Juan 28-5 Unit #42P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,284.5	5,983.0	MANCOS		0.00		
7,719.5	7,418.0	GREENHORN		0.00		
8,051.5	7,750.0	ENCINAL		0.00		
3,729.0	3,470.0	LEWIS		0.00		
5,285.5	4,984.0	MASSIVE CLIFF HOUSE		0.00		
3,107.8	2,907.0	FRUITLAND		0.00		
2,775.7	2,606.0	OJO ALAMO		0.00		
7,921.5	7,620.0	UPPER CUBERO		0.00		
2,937.9	2,753.0	KIRTLAND		0.00		
1,209.7	1,186.0	NACIMIENTO		0.00		
7,777.5	7,476.0	GRANEROS		0.00		
5,839.5	5,538.0	POINT LOOKOUT		0.00		
7,912.5	7,611.0	PAGUATE		0.00		
5,457.5	5,156.0	MENEFEE		0.00		
7,964.5	7,663.0	LOWER CUBERO		0.00		
7,810.5	7,509.0	TWO WELLS		0.00		
4,557.3	4,256.0	CHACRA		0.00		
3,543.6	3,302.0	PICTURED CLIFFS		0.00		
6,974.5	6,673.0	UPPER GALLUP		0.00		

REFERENCE INFORMATION

WELL @ 6524.0usft (Original Well Elev)
Ground Elevation 6509.0
Reference Lat: 36° 36' 32.968 N
Reference Long: 107° 24' 33.926 W

Project: San Juan Basin - New Mexico Central
Site: San Juan 28 Wells
Well: San Juan 28-5 Unit #42P
Wellbore: Wellbore #1
Design: Design #1



SECTION DETAILS

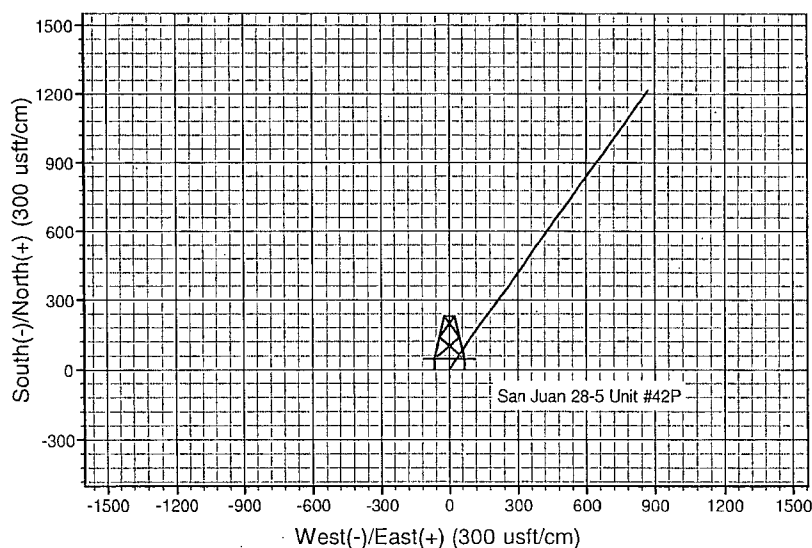
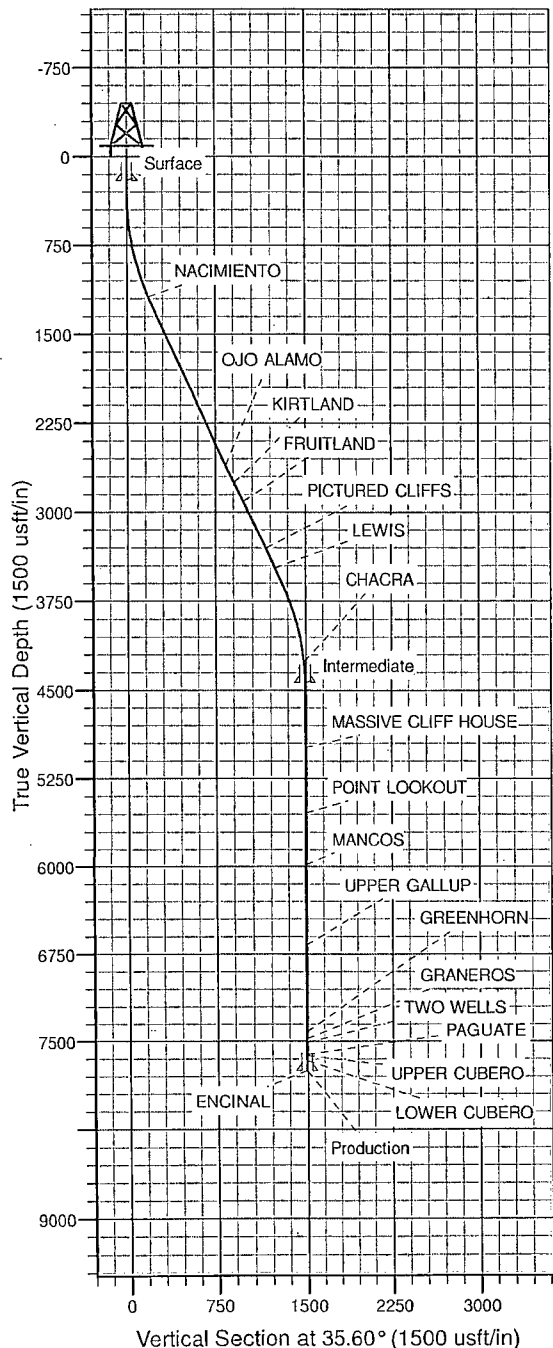
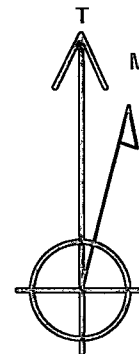
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	1300.0	25.00	35.60	1268.6	174.6	125.0	2.50	35.60	214.7	
4	3903.4	25.00	35.60	3628.1	1069.2	765.5	0.00	0.00	1315.0	
5	4736.8	0.00	0.00	4435.2	1214.7	869.6	3.00	180.00	1493.9	
6	8051.5	0.00	0.00	7750.0	1214.7	869.6	0.00	0.00	1493.9	SJ 28-5 Unit #42P BHL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1186.0	1209.7	NACIMIENTO
2606.0	2775.7	OJO ALAMO
2753.0	2937.9	KIRTLAND
2907.0	3107.8	FRUITLAND
3302.0	3543.6	PICTURED CLIFFS
3470.0	3729.0	LEWIS
4256.0	4557.3	CHACRA
4984.0	5285.5	MASSIVE CLIFF HO
5156.0	5457.5	MENEFEE
5538.0	5839.5	POINT LOOKOUT
5983.0	6284.5	MANCOS
6673.0	6974.5	UPPER GALLUP
7418.0	7719.5	GREENHORN
7476.0	7777.5	GRANEROS
7509.0	7810.5	TWO WELLS
7611.0	7912.5	PAGUATE
7620.0	7921.5	UPPER CUBERO
7663.0	7964.5	LOWER CUBERO
7750.0	8051.5	ENCINAL

Azimuths to True North
Magnetic North: 9.45°

Magnetic Field
Strength: 50370.2snT
Dip Angle: 63.36°
Date: 2/26/2014
Model: BGGM2013



K. All operations will be conducted in such a manner that full compliance is made with the applicable laws and regulations, the Application for Permit to Drill, and applicable Notice(s) to Lessees.

VII. Methods for Handling Waste

A. Cuttings, Drilling Fluids, and Flowback Water - The drill cuttings, drill water and completion fluids will be placed in a lined reserve pit. The pit will be lined with 20m gage pit liner. The reserve pit will be fenced on three sides away from the pad during drilling and the fourth side fenced as soon as the rig moves out. The free fluids will be removed after completion or may be trucked and reused in drilling operations or trucked to an approved disposal facility as indicated in Burlington Resources Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office in Aztec, NM.

B. Garbage and other waste material - garbage, trash and other waste materials will be collected in a portable, self-contained and fully-enclosed trash container during drilling and completion operations. The accumulated trash will be removed, as needed, and will be disposed of at an authorized sanitary landfill. No trash will be buried or burned on location.

C. Sewage - self-contained, chemical toilets will be provided for human waste disposal. The toilet holding tanks will be pumped, as needed, and the contents thereof disposed of in an approved sewage disposal facility. The toilets will be onsite during all operations.

D. Immediately after drilling and completing activities have ceased, all debris and other waste materials not contained in the trash containers will be cleaned up and removed from the well location.

VIII. Ancillary Facilities

A. The proposed areas and access roads listed below could be utilized for staging of construction, drilling, and completion equipment to facilitate drilling operations. Additionally, staging could occur, within the permitted right-of-way, along the route shown on Sheet B and described on Sheet C. Staging could take place when the rig moves in or off location. Any proposed temporary use area will be returned to same or better condition than before operations began and will comply with the BLM FFO Bare Soil Reclamation Procedures.

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 28-5 UNIT #42 P

504' FNL & 160' FEL

LOCATED IN THE NE/4 NE/4 OF SECTION 1,

T27N, R8W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM POST OFFICE IN BLANCO, TRAVEL EAST ON HWY 64 FOR 28 MILES.
- 2) TURN RIGHT AT GOBERNADOR SCHOOL ROAD AND TRAVEL 1.1 MILES.
- 3) TURN RIGHT ONTO AMERICAN GENERAL ROAD AND TRAVEL 3.3 MILES TO A 4-WAY INTERSECTION.
- 4) CONTINUE AHEAD FOR 2.1 MILES, ACROSS MUNOZ WASH.
- 5) TURN RIGHT AND TRAVEL 0.2 MILES.
- 6) TURN RIGHT AND TRAVEL 0.4 MILES TO THE EXISTING LOCATION WHERE THE ACCESS IS STAKED ON THE RIGHT.

WELL FLAG LOCATED AT LAT. 36.60917° N, LONG. 107.41003° W (NAD 83).

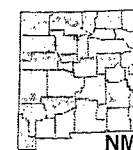
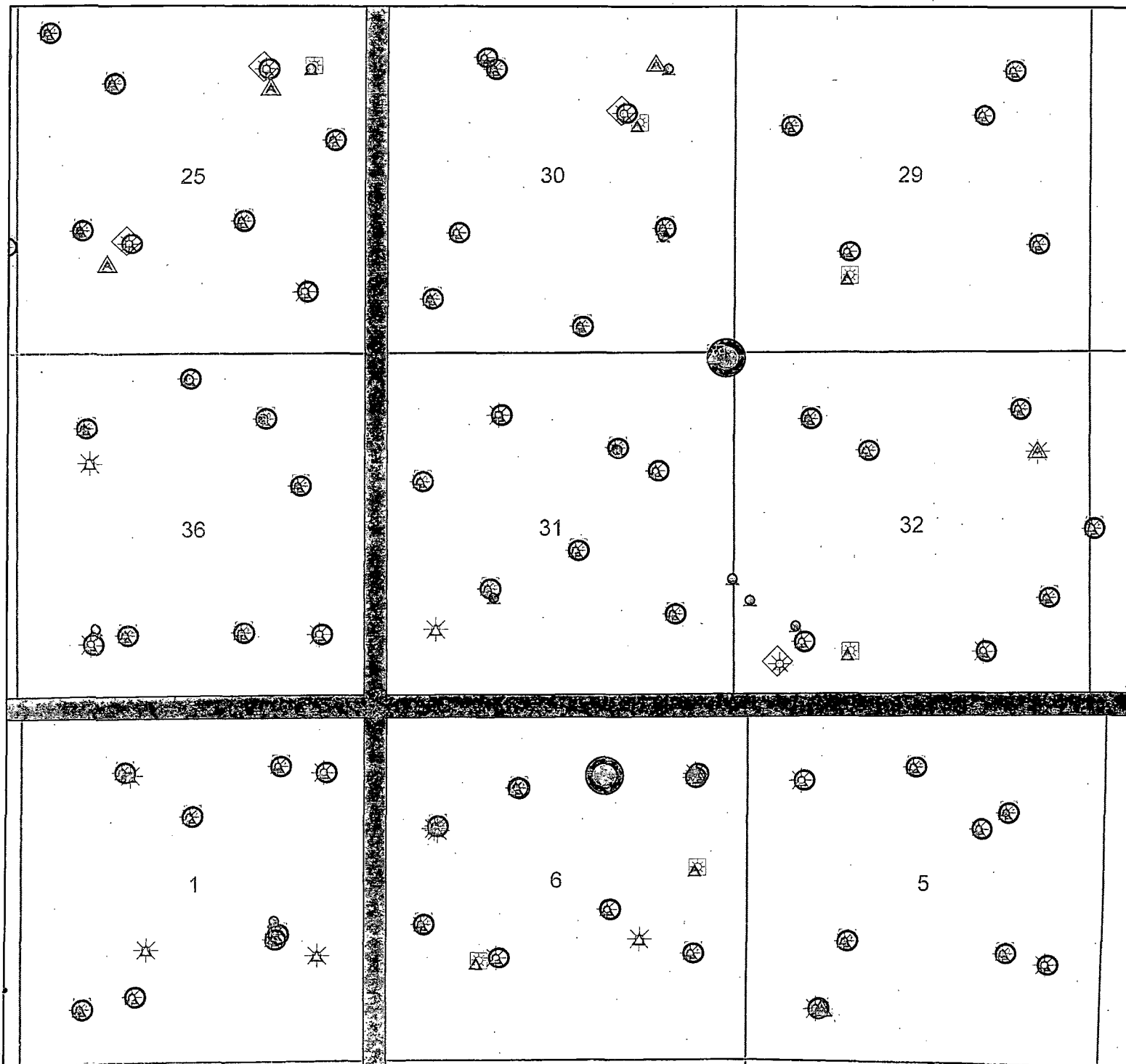
JOB No.: COPC430_REV1
DATE: 07/06/11



Scorpion Survey &
Consulting, L.L.C.
302 South Ash
Aztec, New Mexico 87410
(505) 334-4007

SAN JUAN 28-5 UNIT 42P

SHEET D



ConocoPhillips

SAN JUAN 28-5 UNIT 42P

MAP 1A

Sec. 31, T28N, R5W

Author: _____ Date: 4/24/2014
Compiled by: _____ Scale: 1:24,000