

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

SEP 27 2011

1a. Type of Work DRILL	5. Lease Number SF-079521 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name OK-NMNM78411B San Juan 28-5 Unit MV-NMNM78411A
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name
4. Location of Well Surface: Unit I (NESE), 1883' FSL & 38' FEL BHL : Unit L (NWSW), 2200' FSL & 215' FWL Surface: Latitude: 36.61572° N (NAD83) Longitude: 107.39166° W Surface: Latitude: 36.61659° N (NAD83) Longitude: 107.39079° W	9. Well Number 56N
10. Field, Pool, Wildcat Blanco MV/Basin DK	11. Sec., Twn, Rge, Mer. (NMPM) Surf: Sec. 31, T28N, R5W BHL : Sec. 32, T28N, R5W API# 30-039-31088
14. Distance in Miles from Nearest Town 34 miles to Blanco	12. County Rio Arriba
15. Distance from Proposed Location to Nearest Property or Lease Line 38'	13. State NM
16. Acres in Lease 638.720	17. Acres Assigned to Well 318.72 acres S/2
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1360' SJ 28-5 Unit 38 (MV)	20. Rotary or Cable Tools Rotary
19. Proposed Depth 7777' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"
21. Elevations (DF, FT, GR, Etc.) 6525' GL	
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Arleen Kellywood</u> Arleen Kellywood (Staff Regulatory Tech)	9/27/11 Date

Hold C104
for Directional Survey
and "As Drilled" plat

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 11/9/11

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
NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT NOV 21 2011
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

PC

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised July 10, 2010

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

Submit one copy to appropriate
District Office

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 31088	² Pool Code 72319 / 71599	³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 7460	⁵ Property Name SAN JUAN 28-5 UNIT	⁶ Well Number 56N
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6525'

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
1	31	28N	5W		1883'	SOUTH	38'	EAST	RIO ARRIBA

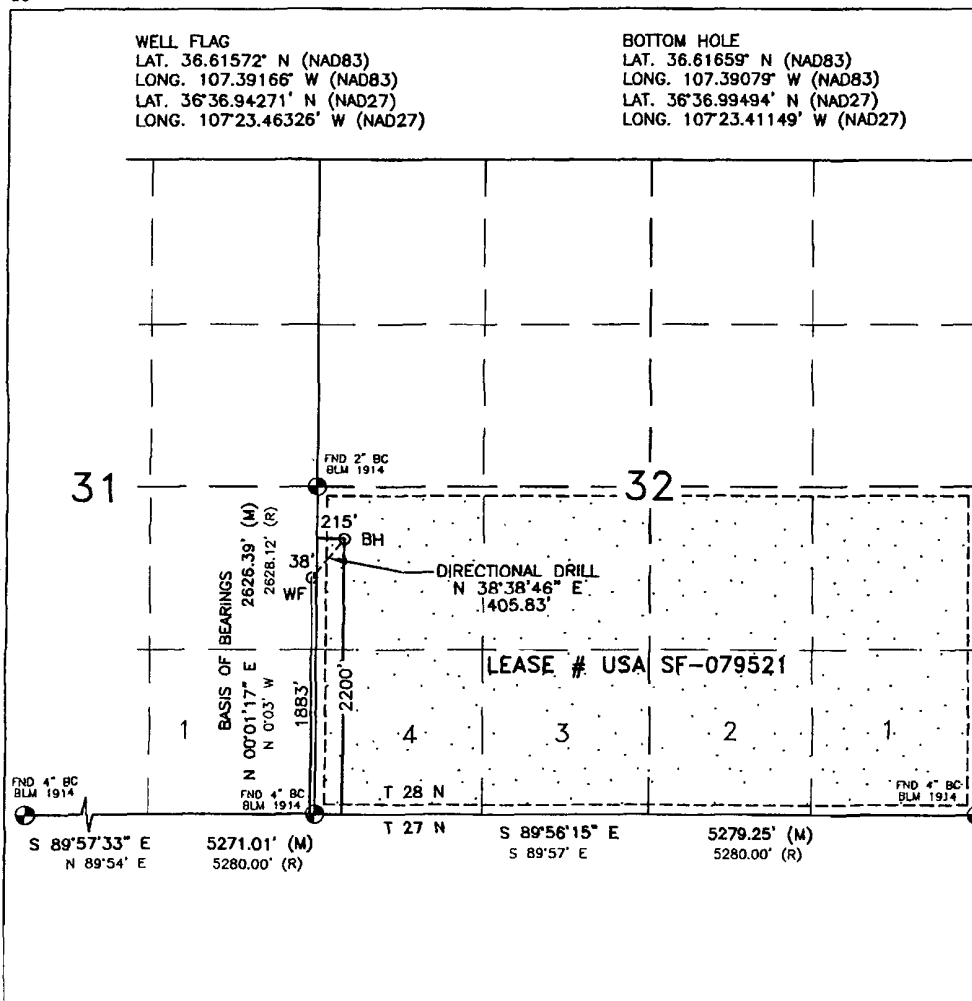
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	32	28N	5W		2200'	SOUTH	215'	WEST	RIO ARRIBA

¹² Dedicated Acres 318.72 ACRES - S/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

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

Dollie L. Busse 4/13/11
Signature Date

Dollie L. Busse
Printed Name

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.

MARCH 21, 2011

Date of Survey

Signature and Seal of Professional Surveyor:

David A. Russell
DAVID A. RUSSELL
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
10201
DAVID RUSSELL
Certificate Number 10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-5 UNIT 56N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0130				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 711		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						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface Datum Code: NAD:27 Directional							
Latitude: 36.615711		Longitude: -107.391058		X:	Y:	Section: 31	Range: 005W
Footage X: 38 FEL		Footage Y: 1883 FSL		Elevation: 6525 (FT)		Township: 028N	
Tolerance:							
Location: Bottom Hole Datum Code: NAD:27 Directional							
Latitude: 36.616581		Longitude: -107.390188		X:	Y:	Section: 32	Range: 005W
Footage X: 215 FWL		Footage Y: 2200 FSL		Elevation: (FT)		Township: 028N	
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6540 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6340	200	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1403	5137		☐			
OJO ALAMO	2631	3909		☐			
KIRTLAND	2805	3735		☐			
FRUITLAND	2916	3624		☐			Possible Gas
PICTURED CLIFFS	3349	3191		☐			
LEWIS	3489	3051		☐			
Intermediate Casing	3639	2901	3694	☐	115	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 834 cuft. Circulate cement to surface.	
CHACRA	4292	2248		☐			Est. Top Perf - 4294 (2246)
UPPER CLIFF HOUSE	4910	1630		☐			Gas
MASSIVE CLIFF HOUSE	5023	1517		☐	663		Gas; Cliffhouse is dry
MENEFEE	5181	1359		☐			
POINT LOOKOUT	5562	978		☐			
MANCOS	6017	523		☐			
UPPER GALLUP	6690	-150		☐			
GREENHORN	7440	-900		☐			
GRANEROS	7504	-964		☐			
TWO WELLS	7543	-1003		☐	1943		Gas
PAGUATE	7626	-1086		☐			
UPPER CUBERO	7648	-1108		☐			
LOWER CUBERO	7691	-1151		☐			Est. Btm Perf - 7762 (- 1222) based on offset wells

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-5 UNIT 56N

DEVELOPMENT

OAK CANYON	7764	-1224	☐	
Total Depth	7777	-1237	7832	☐ 201 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 526 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	7777	-1237	☐	TD - T/ENCN

Reference Wells:

Reference Type	Well Name	Comments
Production	SJ 28-5 UNIT-41M	28N 5W 32 SE NW NW
Production	SJ UNIT 28-5-56	28N 5W 32 NW SE SW
Production	SJ 28-5 UNIT-42M	28N 5W 31 NE SE

Logging Program:

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

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

Cased Hole GR / CBL

Mudlog from 100' above top of GLLP to TD - mudlogger will call 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

SJ 28-5 56N

SJ 28-5 56N

Plan: Plan #1

Standard Planning Report

20 September, 2011

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-5 56N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6540.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 6540.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-5 56N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 28-5 56N		
Design:	Plan #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:	From:	Lat/Long	
	Northing:	2,045,688.53 ft	Latitude: 36° 36' 58.001 N
	Easting:	147,261.04 ft	Longitude: 107° 27' 6.935 W
Position Uncertainty:	3.5 ft	Slot Radius: 6-1/8"	Grid Convergence: -0.72 °

Well:	SJ 28-5 56N, Directional S Curve Short		
Well Position	+N/-S	0.0 ft	Northing: 2,045,325.17 ft
	+E/-W	0.0 ft	Easting: 165,124.63 ft
Position Uncertainty	3.0 ft	Wellhead Elevation: ft	Ground Level: 6,525.0 ft

Wellbore	SJ 28-5 56N				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	9/20/2011	9.67	63.45	50,677

Design:		Plan #1		
Audit Notes:				
Version:		Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	38.63

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,762.0	21.24	38.63	2,737.8	152.0	121.5	2.00	2.00	0.00	38.63	
2,986.5	21.24	38.63	2,947.1	215.6	172.3	0.00	0.00	0.00	0.00	
3,694.5	0.00	0.00	3,639.0	316.9	253.2	3.00	-3.00	0.00	180.00	SJ 28-5 56N ICP
7,832.5	0.00	0.00	7,777.0	316.9	253.2	0.00	0.00	0.00	0.00	SJ 28-5 56N PCP

ConocoPhillips or its affiliates

Planning Report

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Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 6540.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-5 56N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 28-5 56N		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (%/100ft)	Build Rate (%/100ft)	Turn Rate (%/100ft)	
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										
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	
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	
1,403.0	0.00	0.00	1,403.0	0.0	0.0	0.0	0.00	0.00	0.00	
Nacimiento										
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	
1,800.0	2.00	38.63	1,800.0	1.4	1.1	1.7	2.00	2.00	0.00	
1,900.0	4.00	38.63	1,899.8	5.5	4.4	7.0	2.00	2.00	0.00	
2,000.0	6.00	38.63	1,999.5	12.3	9.8	15.7	2.00	2.00	0.00	
2,100.0	8.00	38.63	2,098.7	21.8	17.4	27.9	2.00	2.00	0.00	
2,200.0	10.00	38.63	2,197.5	34.0	27.2	43.5	2.00	2.00	0.00	
2,300.0	12.00	38.63	2,295.6	48.9	39.1	62.6	2.00	2.00	0.00	
2,400.0	14.00	38.63	2,393.1	66.5	53.1	85.1	2.00	2.00	0.00	
2,500.0	16.00	38.63	2,489.6	86.7	69.3	111.0	2.00	2.00	0.00	
2,600.0	18.00	38.63	2,585.3	109.5	87.5	140.2	2.00	2.00	0.00	
2,648.2	18.96	38.63	2,631.0	121.5	97.1	155.5	2.00	2.00	0.00	
Ojo Alamo										
2,700.0	20.00	38.63	2,679.8	135.0	107.9	172.8	2.00	2.00	0.00	
2,762.0	21.24	38.63	2,737.8	152.0	121.5	194.6	2.00	2.00	0.00	
2,800.0	21.24	38.63	2,773.3	162.8	130.1	208.4	0.00	0.00	0.00	
2,834.1	21.24	38.63	2,805.0	172.4	137.8	220.7	0.00	0.00	0.00	
Kirtland										
2,900.0	21.24	38.63	2,866.5	191.1	152.7	244.6	0.00	0.00	0.00	
2,953.1	21.24	38.63	2,916.0	206.1	164.7	263.8	0.00	0.00	0.00	
Fruitland										
2,986.5	21.24	38.63	2,947.1	215.6	172.3	275.9	0.00	0.00	0.00	
3,000.0	20.84	38.63	2,959.7	219.4	175.3	280.8	3.00	-3.00	0.00	
3,100.0	17.84	38.63	3,054.0	245.2	195.9	313.9	3.00	-3.00	0.00	
3,200.0	14.84	38.63	3,150.0	267.2	213.5	342.0	3.00	-3.00	0.00	
3,300.0	11.84	38.63	3,247.3	285.2	227.9	365.1	3.00	-3.00	0.00	
3,400.0	8.84	38.63	3,345.7	299.2	239.1	383.0	3.00	-3.00	0.00	
3,403.4	8.73	38.63	3,349.0	299.6	239.4	383.5	3.00	-3.00	0.00	
PC										
3,500.0	5.84	38.63	3,444.8	309.2	247.1	395.8	3.00	-3.00	0.00	
3,544.4	4.50	38.63	3,489.0	312.3	249.6	399.8	3.00	-3.00	0.00	
Lewis										
3,600.0	2.84	38.63	3,544.5	315.1	251.8	403.3	3.00	-3.00	0.00	
3,694.5	0.00	0.00	3,639.0	316.9	253.2	405.7	3.00	-3.00	0.00	

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-5 56N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6540.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 6540.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-5 56N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 28-5 56N		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Intermediate - SJ 28-5 56N ICP:									
3,700.0	0.00	0.00	3,644.5	316.9	253.2	405.7	0.00	0.00	0.00
3,800.0	0.00	0.00	3,744.5	316.9	253.2	405.7	0.00	0.00	0.00
3,900.0	0.00	0.00	3,844.5	316.9	253.2	405.7	0.00	0.00	0.00
4,000.0	0.00	0.00	3,944.5	316.9	253.2	405.7	0.00	0.00	0.00
4,100.0	0.00	0.00	4,044.5	316.9	253.2	405.7	0.00	0.00	0.00
4,200.0	0.00	0.00	4,144.5	316.9	253.2	405.7	0.00	0.00	0.00
4,300.0	0.00	0.00	4,244.5	316.9	253.2	405.7	0.00	0.00	0.00
4,347.5	0.00	0.00	4,292.0	316.9	253.2	405.7	0.00	0.00	0.00
Chacra:									
4,400.0	0.00	0.00	4,344.5	316.9	253.2	405.7	0.00	0.00	0.00
4,500.0	0.00	0.00	4,444.5	316.9	253.2	405.7	0.00	0.00	0.00
4,600.0	0.00	0.00	4,544.5	316.9	253.2	405.7	0.00	0.00	0.00
4,700.0	0.00	0.00	4,644.5	316.9	253.2	405.7	0.00	0.00	0.00
4,800.0	0.00	0.00	4,744.5	316.9	253.2	405.7	0.00	0.00	0.00
4,900.0	0.00	0.00	4,844.5	316.9	253.2	405.7	0.00	0.00	0.00
4,965.5	0.00	0.00	4,910.0	316.9	253.2	405.7	0.00	0.00	0.00
Upper Cliff House:									
5,000.0	0.00	0.00	4,944.5	316.9	253.2	405.7	0.00	0.00	0.00
5,078.5	0.00	0.00	5,023.0	316.9	253.2	405.7	0.00	0.00	0.00
Massive Cliff House:									
5,100.0	0.00	0.00	5,044.5	316.9	253.2	405.7	0.00	0.00	0.00
5,200.0	0.00	0.00	5,144.5	316.9	253.2	405.7	0.00	0.00	0.00
5,236.5	0.00	0.00	5,181.0	316.9	253.2	405.7	0.00	0.00	0.00
Menefee:									
5,300.0	0.00	0.00	5,244.5	316.9	253.2	405.7	0.00	0.00	0.00
5,400.0	0.00	0.00	5,344.5	316.9	253.2	405.7	0.00	0.00	0.00
5,500.0	0.00	0.00	5,444.5	316.9	253.2	405.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,544.5	316.9	253.2	405.7	0.00	0.00	0.00
5,617.5	0.00	0.00	5,562.0	316.9	253.2	405.7	0.00	0.00	0.00
Point Lookout:									
5,700.0	0.00	0.00	5,644.5	316.9	253.2	405.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,744.5	316.9	253.2	405.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,844.5	316.9	253.2	405.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,944.5	316.9	253.2	405.7	0.00	0.00	0.00
6,072.5	0.00	0.00	6,017.0	316.9	253.2	405.7	0.00	0.00	0.00
Mancos									
6,100.0	0.00	0.00	6,044.5	316.9	253.2	405.7	0.00	0.00	0.00
6,200.0	0.00	0.00	6,144.5	316.9	253.2	405.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,244.5	316.9	253.2	405.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,344.5	316.9	253.2	405.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,444.5	316.9	253.2	405.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,544.5	316.9	253.2	405.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,644.5	316.9	253.2	405.7	0.00	0.00	0.00
6,745.5	0.00	0.00	6,690.0	316.9	253.2	405.7	0.00	0.00	0.00
Upper Gallup									
6,800.0	0.00	0.00	6,744.5	316.9	253.2	405.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,844.5	316.9	253.2	405.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,944.5	316.9	253.2	405.7	0.00	0.00	0.00
7,100.0	0.00	0.00	7,044.5	316.9	253.2	405.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,144.5	316.9	253.2	405.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,244.5	316.9	253.2	405.7	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning:	Local Co-ordinate Reference:	Well SJ 28-5 56N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6540.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 6540.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-5 56N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 28-5 56N		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
7,400.0	0.00	0.00	7,344.5	316.9	253.2	405.7	0.00	0.00	0.00	
7,495.5	0.00	0.00	7,440.0	316.9	253.2	405.7	0.00	0.00	0.00	
Greenhorn										
7,500.0	0.00	0.00	7,444.5	316.9	253.2	405.7	0.00	0.00	0.00	
7,559.5	0.00	0.00	7,504.0	316.9	253.2	405.7	0.00	0.00	0.00	
Graneros										
7,598.5	0.00	0.00	7,543.0	316.9	253.2	405.7	0.00	0.00	0.00	
Two Wells										
7,600.0	0.00	0.00	7,544.5	316.9	253.2	405.7	0.00	0.00	0.00	
7,681.5	0.00	0.00	7,626.0	316.9	253.2	405.7	0.00	0.00	0.00	
Paguate										
7,700.0	0.00	0.00	7,644.5	316.9	253.2	405.7	0.00	0.00	0.00	
7,703.5	0.00	0.00	7,648.0	316.9	253.2	405.7	0.00	0.00	0.00	
Upper Cubero										
7,746.5	0.00	0.00	7,691.0	316.9	253.2	405.7	0.00	0.00	0.00	
Lower Cubero										
7,800.0	0.00	0.00	7,744.5	316.9	253.2	405.7	0.00	0.00	0.00	
7,819.5	0.00	0.00	7,764.0	316.9	253.2	405.7	0.00	0.00	0.00	
Oak Canyon										
7,832.5	0.00	0.00	7,777.0	316.9	253.2	405.7	0.00	0.00	0.00	
Production - SJ 28-5 56N PCP										

Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
SJ 28-5 56N ICP	- plan hits target center - Point	0.00	0.00	3,639.0	316.9	253.2	2,045,639.07	165,381.62	36° 36' 59.696 N	107° 23' 24.689 W
SJ 28-5 56N PCP	- plan hits target center - Point	0.00	0.00	7,777.0	316.9	253.2	2,045,639.04	165,381.58	36° 36' 59.696 N	107° 23' 24.690 W

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")		
200.0	200.0	Surface	9-5/8	12-1/4		
3,694.5	3,639.0	Intermediate	7	8-3/4		
7,832.5	7,777.0	Production	4-1/2	6-1/4		

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-5 56N
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6540.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 6540.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-5 56N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 28-5 56N		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Direction (°)	
2,834.1	2,805.0	Kirtland				
1,403.0	1,403.0	Nacimiento				
7,819.5	7,764.0	Oak Canyon				
5,236.5	5,181.0	Menefee				
3,403.4	3,349.0	PC				
7,746.5	7,691.0	Lower Cubero				
5,617.5	5,562.0	Point Lookout				
2,953.1	2,916.0	Fruitland				
6,072.5	6,017.0	Mancos				
2,648.2	2,631.0	Ojo Alamo				
3,544.4	3,489.0	Lewis				
4,347.5	4,292.0	Chacra				
7,703.5	7,648.0	Upper Cubero				
5,078.5	5,023.0	Massive Cliff House				
7,559.5	7,504.0	Graneros				
4,965.5	4,910.0	Upper Cliff House				
7,495.5	7,440.0	Greenhorn				
6,745.5	6,690.0	Upper Gallup				
7,598.5	7,543.0	Two Wells				
7,681.5	7,626.0	Paguate				

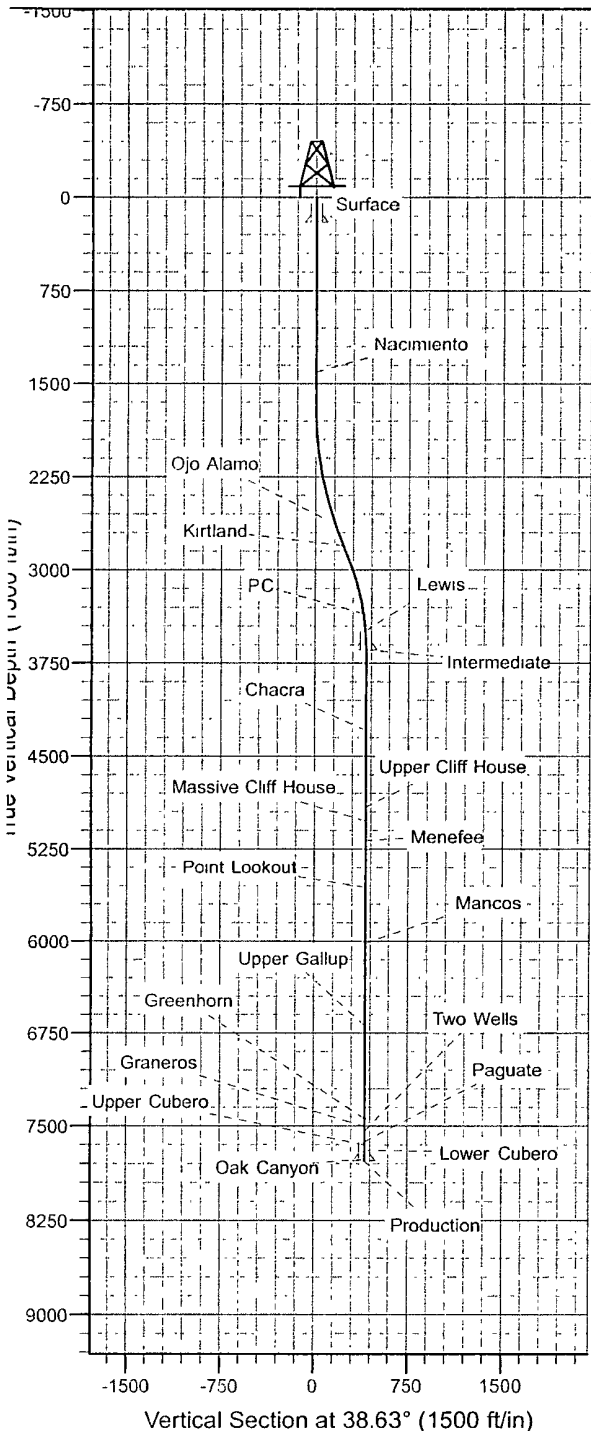
ELL @ 6540.0ft (Original Well Elev)
 round Elevation 6525.0
 Reference Lat: 36° 36' 56.563 N
 Reference Long: 107° 23' 27.796 W

Site: San Juan 28 Wells
 Well: SJ 28-5 56N
 Wellbore: SJ 28-5 56N
 Design: Plan #1

ConocoPhillips

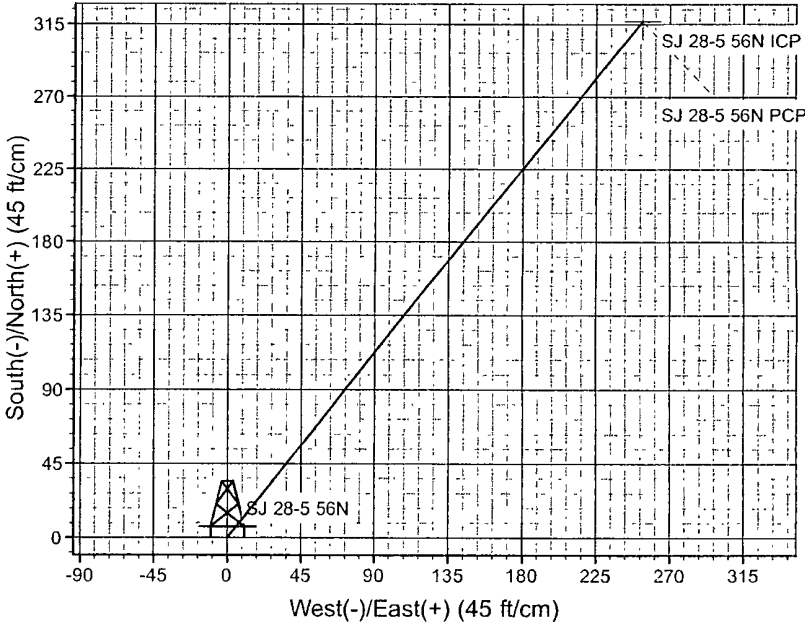
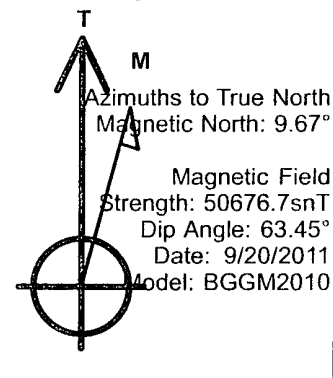
SECTION DETAILS

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	1700.0	0.00	0.00	1700.0	0.0	0.0	0.00	0.00	0.0	
3	2762.0	21.24	38.63	2737.8	152.0	121.5	2.00	38.63	194.6	
4	2986.5	21.24	38.63	2947.1	215.6	172.3	0.00	0.00	275.9	
5	3694.5	0.00	0.00	3639.0	316.9	253.2	3.00	180.00	405.7	SJ 28-5 56N ICP
6	7832.5	0.00	0.00	7777.0	316.9	253.2	0.00	0.00	405.7	SJ 28-5 56N PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1403.0	1403.0	Nacimiento
2631.0	2648.2	Ojo Alamo
2805.0	2834.1	Kirtland
2916.0	2953.1	Fruitland
3349.0	3403.4	PC
3489.0	3544.4	Lewis
4292.0	4347.5	Chacra
4910.0	4965.5	Upper Cliff House
5023.0	5078.5	Massive Cliff House
5181.0	5236.5	Menefee
5562.0	5617.5	Point Lookout
6017.0	6072.5	Mancos
6690.0	6745.5	Upper Gallup
7440.0	7495.5	Greenhorn
7504.0	7559.5	Graneros
7543.0	7598.5	Two Wells
7626.0	7681.5	Paguate
7648.0	7703.5	Upper Cubero
7691.0	7746.5	Lower Cubero
7764.0	7819.5	Oak Canyon



WELL FLAG

LATITUDE: 36.61572° N
LONGITUDE: 107.39166° W

CENTER OF PIT

LATITUDE: 36.61568° N
LONGITUDE: 107.39146° W

ELEVATION: 6512.0'

DATUM: NAD83 & NAVD88

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 28-5 UNIT #56N

1883' FSL & 38' FEL

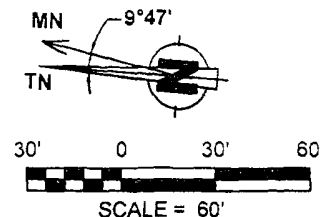
LOCATED IN THE NE/4 SE/4 OF SECTION 31,

T28N, R5W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

GROUND ELEVATION: 6525', NAVD 88

FINISHED PAD ELEVATION: 6524.0', NAVD 88

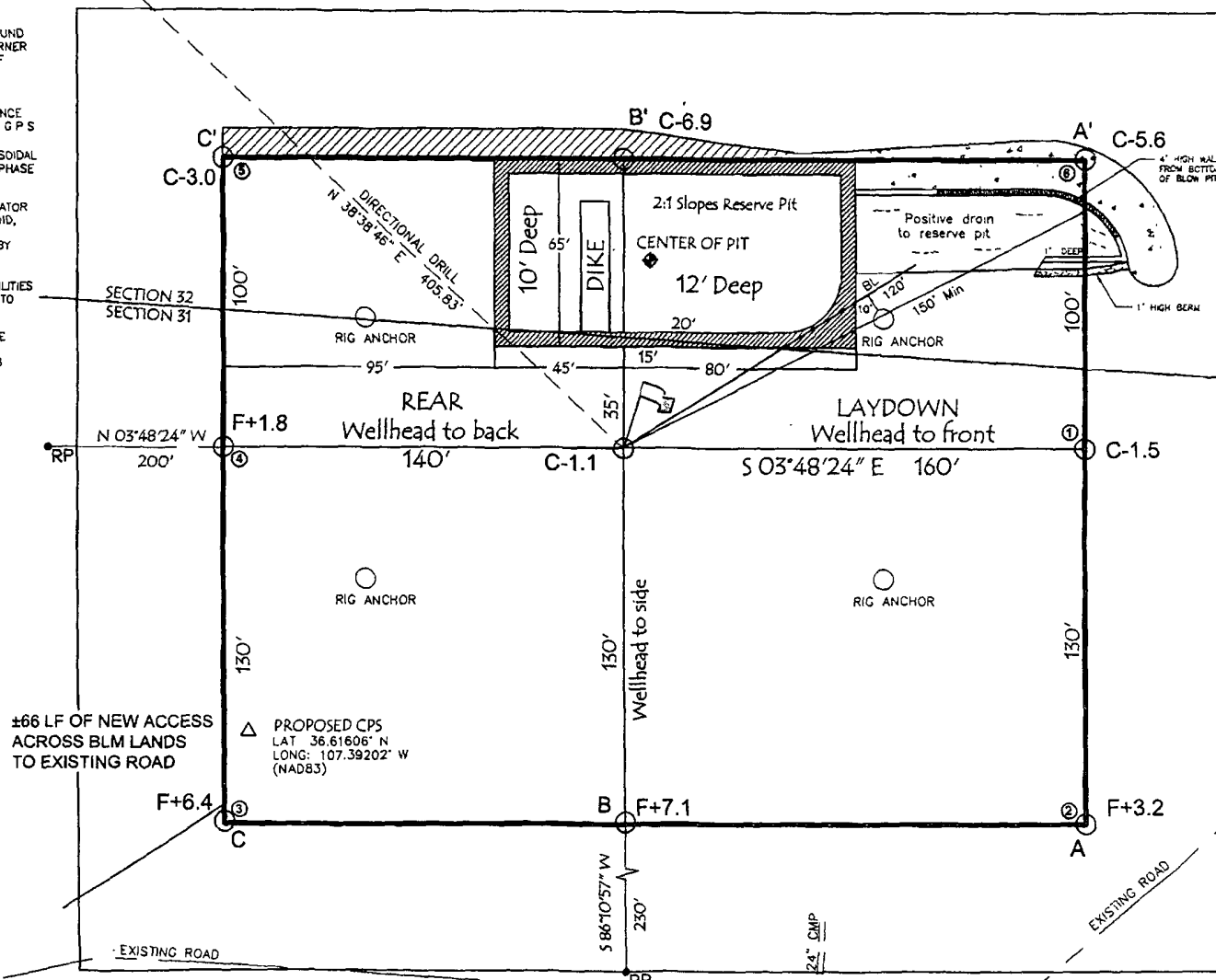


NOTES

1.) BASIS OF BEARING: BETWEEN FOUND MONUMENTS AT THE SOUTHWEST CORNER AND THE WEST QUARTER CORNER OF SECTION 32, TOWNSHIP 28 NORTH, RANGE 5 WEST, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO.
LINE BEARS: N 00°01'17" E A DISTANCE OF 2626.39 FEET AS MEASURED BY GPS

2.) LATITUDE, LONGITUDE AND ELLIPSOIDAL HEIGHT BASED ON AZTEC CORS L1 PHASE CENTER.
DISTANCES SHOWN ARE GROUND DISTANCES USING A TRAVERSE MERCATOR PROJECTION FROM A WGS84 ELLIPSOID, CONVERTED TO NAD83.
NAVD88 ELEVATIONS AS PREDICTED BY GEOID03.

3.) LOCATION OF UNDERGROUND UTILITIES DEPICTED ARE APPROXIMATE. PRIOR TO EXCAVATION UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO ONE-CALL AUTHORITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.



TOTAL PERMITTED AREA

330' x 400' = 3.03 ACRES

SCALE: 1" = 60'

JOB No.: COPC410_REV1

DATE: 03/25/11

DRAWN BY: GRR

NOTE:

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
RUSSELL SURVEYING, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED, BURIED PIPELINES OR CABLES ON WELL PAD, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

SLOPES TO BE
CONSTRUCTED TO MATCH
THE ORIGINAL CONTOURS
AS CLOSE AS POSSIBLE.

Russell Surveying

1409 W. Aztec Blvd. #2

Aztec, New Mexico 87410

(505) 334-8637

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 28-5 UNIT #56N

1883' FSL & 38' FEL

LOCATED IN THE NE/4 SE/4 OF SECTION 31,
T28N, R5W, 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 THE GOBERNADOR SCHOOL ROAD AND TRAVEL 1.1 MILES.
- 3) TURN RIGHT ON TO AMERICAN GENERAL ROAD AND TRAVEL 3.3 MILES TO A 4-WAY INTERSECTION.
- 4) CONTINUE AHEAD FOR 1.5 MILES, CROSSING THE MUNOZ WASH TO THE FLAGGED ACCESS ON THE LEFT.

WELL FLAG LOCATED AT LAT. 36.61572° N, LONG. 107.39166° W (NAD 83).

