

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

JUL 29 2010

1a. Type of Work DRILL	5. Lease Number SF-078426 Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator ConocoPhillips Company	7. Unit Agreement Name MV-NMNM78416A DK-NMNM124273 San Juan 29-6 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name RCVD OCT 28 '10 OIL CONS. DIV. DIST. 3	
4. Location of Well Surf: Unit K(NESW), 1975' FSL & 1790' FWL Bottomhole: Unit M(SWSW), 1250' FSL & 710' FWL Surf: Latitude: 36.709354° N (NAD83) Longitude: 107.507203° W Bottomhole: Latitude: 36.707355° N (NAD83) Longitude: 107.510886° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 19, T29N, R6W API # 30-039-30985	
14. Distance in Miles from Nearest Town 30 miles / Bloomfield	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710'	17. Acres Assigned to Well 320.00 W/2 - MV/DK	
16. Acres in Lease 1,840.00	This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 76' from San Juan 29-6 Unit 242 (FC)	20. Rotary or Cable Tools Rotary	
19. Proposed Depth 7573'	22. Approx. Date Work will Start 7/29/2010	
21. Elevations (DF, FT, GR, Etc.) 6251' GL	23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Staff Regulatory Tech)	DATE <u>7/29/2010</u>	

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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 ES-0048 and ES-0085

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

Hold C104
for Directional Survey
and "As Drilled" plat

DEC 02 2010
NMOC

A COMPLETE C-144 MUST BE SUBMITTED TO AND
APPROVED BY THE NMOC FOR: A PIT, CLOSED
LOOP SYSTEM, BELOW GRADE TANK, OR
PROPOSED ALTERNATIVE METHOD, PURSUANT
TO NMOC PART 19.15.17, PRIOR TO THE USE OR
CONSTRUCTION OF THE ABOVE APPLICATIONS.

RECEIVED
JUL 29 2010

Farmington Field Office
Bureau of Land Management
WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

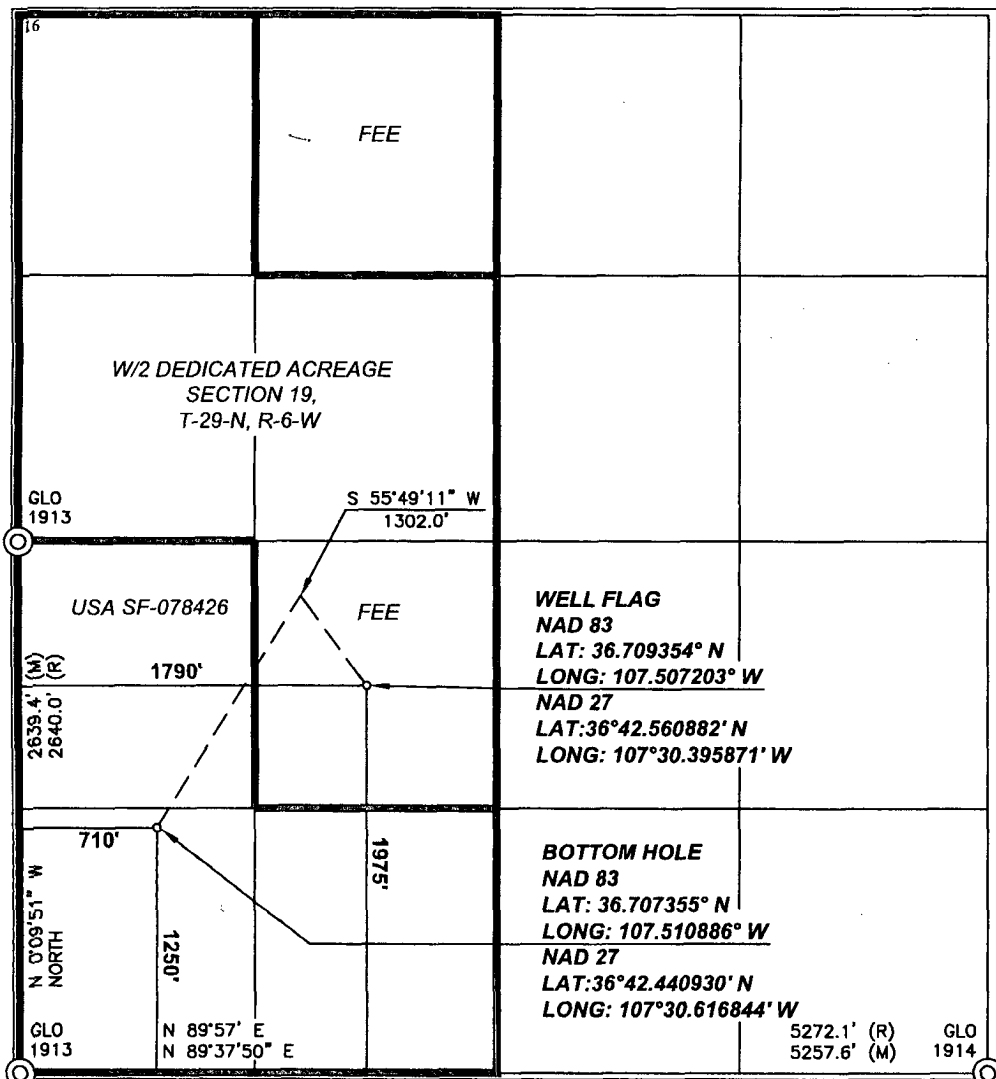
¹ API Number 30-039- 30985		² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE
⁴ Property Code 31326	⁵ Property Name SAN JUAN 29-6 UNIT		⁶ Well Number 61M
⁷ OGRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY		⁹ Elevation 6251

¹⁰ SURFACE LOCATION									
UL or lot no. K	Section 19	Township 29-N	Range 6-W	Lot Idn	Feet from the 1975	North/South line SOUTH	Feet from the 1790	East/West line WEST	County RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. M	Section 19	Township 29-N	Range 6-W	Lot Idn	Feet from the 1250	North/South line SOUTH	Feet from the 710	East/West line WEST	County RIO ARRIBA

¹² Dedicated Acres 320.00 (W1/2)	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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
<i>James Gardenhire</i> Signature
James Gardenhire Printed Name
Regulatory Technician Title and E-mail Address
12/22/08 Date
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.
Date of Survey: 5/16/08 Signature and Seal of Professional Surveyor:
Certificate Number: NM 11393

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-6 UNIT 61M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7492		AFE \$: 1,801,431.12	
Field Name: SAN JUAN		Rig: H&P Rig 282		State: NM	County: RIO ARRIBA
Geologist:		Phone:	Geophysicist:		Phone:
Geoscientist:		Phone:	Prod. Engineer:		Phone:
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826	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: 36.709347	Longitude: -107.506598	X:	Y:	Section: 19	Range: 006W
Footage X: 1790 FWL	Footage Y: 1975 FSL	Elevation: 6251	(FT)	Township: 029N	
Tolerance:					
Location: Bottom Hole					
Datum Code: NAD 27		Directional			
Latitude: 36.707348	Longitude: -107.510281	X:	Y:	Section: 19	Range: 006W
Footage X: 710 FWL	Footage Y: 1250 FSL	Elevation:	(FT)	Township: 029N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2011		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 6266 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)
					BHT
Surface Casing	200	6066		☐	12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
OJO ALAMO	2231	4035		☐	
KIRTLAND	2376	3890		☐	
FRUITLAND	2686	3580		☐	Possible Gas
PICTURED CLIFFS	3104	3162		☐	
LEWIS	3271	2995		☐	
HUERFANITO BENTONITE	3866	2400		☐	
CHACRA	4081	2185		☐	
Intermediate Casing	4200	2066		☐	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1003 cuft. Circulate cement to surface.
MASSIVE CLIFF HOUSE	4831	1435		☐	520 Gas
MENEFEE	4974	1292		☐	
POINT LOOKOUT	5274	992		☐	
MANCOS	5731	535		☐	
UPPER GALLUP	6528	-262		☐	
GREENHORN	7258	-992		☐	
GRANEROS	7316	-1050		☐	
TWO WELLS	7366	-1100		☐	3415 Gas
UPPER CUBERO	7470	-1204		☐	
LOWER CUBERO	7504	-1238		☐	
Total Depth	7573	-1307		☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 462 cuft. Circulate cement a minimum of 100' inside the previous casing string.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-6 UNIT 61M

DEVELOPMENT

ENCINAL 7573 -1307 ☐

Reference Wells:		
Reference Type	Well Name	Comments

Logging Program:

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

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

Mudlog from ~100' above the Greenhorn to TD. Mudloggers will call final TD. Est bottom perf is ~20' above the est TD.

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-6 #61M
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6266.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6266.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-6 #61M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Project:	San Juan Basin - New Mexico Wells		
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:	San Juan 29 Wells		
Site Position:		Northing:	630,528.50 m
From:	Lat/Long	Easting:	180,742.60 m
Position Uncertainty:	0.0 ft	Slot Radius:	in
		Latitude:	36° 41' 5.124 N
		Longitude:	107° 30' 58.350 W
		Grid Convergence:	0.19 °

Well:	SJ 29-6 #61M		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	15.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 42' 33.653 N
		Longitude:	107° 30' 23.752 W
		Ground Level:	6,251.0 ft

Wellbore: Principal Wellbore

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2007	1/16/2009	10.14	63.55	50,982

Design: Plan #1

Audit Notes:

Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
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Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	236.01

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	
320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,552.9	24.66	236.01	1,515.2	-146.0	-216.6	2.00	2.00	0.00	236.01	
3,630.4	24.66	236.01	3,403.2	-630.5	-935.3	0.00	0.00	0.00	0.00	
4,452.3	0.00	0.00	4,200.0	-727.8	-1,079.7	3.00	-3.00	0.00	180.00	SJ 29-6 #61M ICP
7,825.3	0.00	0.00	7,573.0	-727.8	-1,079.7	0.00	0.00	0.00	0.00	SJ 29-6 #61M PCP

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-6 #61M
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6266.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6266.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-6 #61M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
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	
Surf										
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	1.60	236.01	400.0	-0.6	-0.9	1.1	2.00	2.00	0.00	
500.0	3.60	236.01	499.9	-3.2	-4.7	5.7	2.00	2.00	0.00	
600.0	5.60	236.01	599.6	-7.6	-11.3	13.7	2.00	2.00	0.00	
700.0	7.60	236.01	698.9	-14.1	-20.9	25.2	2.00	2.00	0.00	
800.0	9.60	236.01	797.8	-22.4	-33.3	40.1	2.00	2.00	0.00	
900.0	11.60	236.01	896.0	-32.7	-48.5	58.5	2.00	2.00	0.00	
1,000.0	13.60	236.01	993.6	-44.9	-66.6	80.3	2.00	2.00	0.00	
1,100.0	15.60	236.01	1,090.4	-59.0	-87.5	105.5	2.00	2.00	0.00	
1,200.0	17.60	236.01	1,186.2	-75.0	-111.2	134.1	2.00	2.00	0.00	
1,300.0	19.60	236.01	1,281.0	-92.8	-137.6	166.0	2.00	2.00	0.00	
1,400.0	21.60	236.01	1,374.6	-112.5	-166.8	201.2	2.00	2.00	0.00	
1,500.0	23.60	236.01	1,466.9	-133.9	-198.7	239.6	2.00	2.00	0.00	
1,552.9	24.66	236.01	1,515.2	-146.0	-216.6	261.2	2.00	2.00	0.00	
1,600.0	24.66	236.01	1,558.0	-157.0	-232.9	280.9	0.00	0.00	0.00	
1,700.0	24.66	236.01	1,648.9	-180.3	-267.5	322.6	0.00	0.00	0.00	
1,800.0	24.66	236.01	1,739.8	-203.6	-302.1	364.3	0.00	0.00	0.00	
1,900.0	24.66	236.01	1,830.6	-227.0	-336.7	406.0	0.00	0.00	0.00	
2,000.0	24.66	236.01	1,921.5	-250.3	-371.3	447.8	0.00	0.00	0.00	
2,100.0	24.66	236.01	2,012.4	-273.6	-405.9	489.5	0.00	0.00	0.00	
2,200.0	24.66	236.01	2,103.3	-296.9	-440.5	531.2	0.00	0.00	0.00	
2,300.0	24.66	236.01	2,194.2	-320.2	-475.0	572.9	0.00	0.00	0.00	
2,340.5	24.66	236.01	2,231.0	-329.7	-489.1	589.8	0.00	0.00	0.00	
Ojo										
2,400.0	24.66	236.01	2,285.1	-343.6	-509.6	614.6	0.00	0.00	0.00	
2,500.0	24.66	236.01	2,375.9	-366.9	-544.2	656.4	0.00	0.00	0.00	
2,500.1	24.66	236.01	2,376.0	-366.9	-544.3	656.4	0.00	0.00	0.00	
Kirtland										
2,600.0	24.66	236.01	2,466.8	-390.2	-578.8	698.1	0.00	0.00	0.00	
2,700.0	24.66	236.01	2,557.7	-413.5	-613.4	739.8	0.00	0.00	0.00	
2,800.0	24.66	236.01	2,648.6	-436.8	-648.0	781.5	0.00	0.00	0.00	
2,841.2	24.66	236.01	2,686.0	-446.5	-662.3	798.7	0.00	0.00	0.00	
Fruitland										
2,900.0	24.66	236.01	2,739.5	-460.2	-682.6	823.2	0.00	0.00	0.00	
3,000.0	24.66	236.01	2,830.3	-483.5	-717.2	865.0	0.00	0.00	0.00	
3,100.0	24.66	236.01	2,921.2	-506.8	-751.8	906.7	0.00	0.00	0.00	
3,200.0	24.66	236.01	3,012.1	-530.1	-786.4	948.4	0.00	0.00	0.00	
3,300.0	24.66	236.01	3,103.0	-553.5	-821.0	990.1	0.00	0.00	0.00	
3,301.1	24.66	236.01	3,104.0	-553.7	-821.4	990.6	0.00	0.00	0.00	
Pictured Cliffs										
3,400.0	24.66	236.01	3,193.9	-576.8	-855.6	1,031.8	0.00	0.00	0.00	
3,484.9	24.66	236.01	3,271.0	-596.6	-884.9	1,067.2	0.00	0.00	0.00	
Lewis										
3,500.0	24.66	236.01	3,284.8	-600.1	-890.2	1,073.5	0.00	0.00	0.00	
3,600.0	24.66	236.01	3,375.6	-623.4	-924.8	1,115.3	0.00	0.00	0.00	
3,630.4	24.66	236.01	3,403.2	-630.5	-935.3	1,127.9	0.00	0.00	0.00	
3,700.0	22.57	236.01	3,467.0	-646.1	-958.4	1,155.8	3.00	-3.00	0.00	
3,800.0	19.57	236.01	3,560.3	-666.2	-988.2	1,191.8	3.00	-3.00	0.00	

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-6 #61M
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6266.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6266.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-6 #61M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
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)
3,900.0	16.57	236.01	3,655.4	-683.5	-1,013.9	1,222.8	3.00	-3.00	0.00
4,000.0	13.57	236.01	3,751.9	-698.0	-1,035.5	1,248.8	3.00	-3.00	0.00
4,100.0	10.57	236.01	3,849.7	-709.7	-1,052.8	1,269.7	3.00	-3.00	0.00
4,116.5	10.07	236.01	3,866.0	-711.4	-1,055.3	1,272.6	3.00	-3.00	0.00
Huerfano Bentonite									
4,200.0	7.57	236.01	3,948.5	-718.5	-1,065.9	1,285.4	3.00	-3.00	0.00
4,300.0	4.57	236.01	4,047.9	-724.4	-1,074.6	1,296.0	3.00	-3.00	0.00
4,333.2	3.57	236.01	4,081.0	-725.8	-1,076.6	1,298.4	3.00	-3.00	0.00
Chacra									
4,400.0	1.57	236.01	4,147.7	-727.4	-1,079.1	1,301.4	3.00	-3.00	0.00
4,452.3	0.00	0.00	4,200.0	-727.8	-1,079.7	1,302.1	3.00	-3.00	237.19
Int - SJ 29-6 #61M ICP									
4,500.0	0.00	0.00	4,247.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
4,600.0	0.00	0.00	4,347.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
4,700.0	0.00	0.00	4,447.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
4,800.0	0.00	0.00	4,547.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
4,900.0	0.00	0.00	4,647.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
5,000.0	0.00	0.00	4,747.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
5,083.3	0.00	0.00	4,831.0	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
Mass. Cliffhouse									
5,100.0	0.00	0.00	4,847.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
5,200.0	0.00	0.00	4,947.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
5,226.3	0.00	0.00	4,974.0	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
Menefee									
5,300.0	0.00	0.00	5,047.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
5,400.0	0.00	0.00	5,147.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
5,500.0	0.00	0.00	5,247.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
5,526.3	0.00	0.00	5,274.0	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
Point Lookout									
5,600.0	0.00	0.00	5,347.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
5,700.0	0.00	0.00	5,447.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,547.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
5,900.0	0.00	0.00	5,647.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
5,983.3	0.00	0.00	5,731.0	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
Mancos									
6,000.0	0.00	0.00	5,747.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
6,100.0	0.00	0.00	5,847.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
6,200.0	0.00	0.00	5,947.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
6,300.0	0.00	0.00	6,047.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,147.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,247.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,347.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,447.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
6,780.3	0.00	0.00	6,528.0	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
Upper Gallup									
6,800.0	0.00	0.00	6,547.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,647.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,747.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
7,100.0	0.00	0.00	6,847.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
7,200.0	0.00	0.00	6,947.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
7,300.0	0.00	0.00	7,047.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
7,400.0	0.00	0.00	7,147.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-6 #61M
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6266.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6266.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-6 #61M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
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)
7,500.0	0.00	0.00	7,247.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
7,510.3	0.00	0.00	7,258.0	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
Greenhorn									
7,568.3	0.00	0.00	7,316.0	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
Graneros									
7,600.0	0.00	0.00	7,347.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
7,618.3	0.00	0.00	7,366.0	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
Two Wells									
7,700.0	0.00	0.00	7,447.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
7,722.3	0.00	0.00	7,470.0	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
Upper Cubero									
7,756.3	0.00	0.00	7,504.0	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
Lower Cubero									
7,800.0	0.00	0.00	7,547.7	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
7,825.3	0.00	0.00	7,573.0	-727.8	-1,079.7	1,302.1	0.00	0.00	0.00
Encinal - Prod - SJ 29-6 #61M PCP									

Targets

Target Name	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
hit/miss target									
Shape									
SJ 29-6 #61M ICP	0.00	0.00	4,200.0	-727.8	-1,079.7	633,037.11	181,263.92	36° 42' 26.456 N	107° 30' 37.011 W
- plan hits target									
- Point									
SJ 29-6 #61M PCP	0.00	0.00	7,573.0	-727.8	-1,079.7	633,037.12	181,263.91	36° 42' 26.456 N	107° 30' 37.011 W
- plan hits target									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
200.0	200.0	Surf	9.625	12.250
4,452.3	4,200.0	Int	7.000	8.750
7,825.3	7,573.0	Prod	4.500	6.250

ConocoPhillips or its affiliates
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-6 #61M
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6266.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6266.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-6 #61M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction	(°)
2,340.5	2,231.0	Ojo		0.00		
2,500.1	2,376.0	Kirtland		0.00		
2,841.2	2,686.0	Fruitland		0.00		
3,301.1	3,104.0	Pictured Cliffs		0.00		
3,484.9	3,271.0	Lewis		0.00		
4,116.5	3,866.0	Huerfano Bentonite		0.00		
4,333.2	4,081.0	Chacra		0.00		
5,083.3	4,831.0	Mass. Cliffhouse		0.00		
5,226.3	4,974.0	Menefee		0.00		
5,526.3	5,274.0	Point Lookout		0.00		
5,983.3	5,731.0	Mancos		0.00		
6,780.3	6,528.0	Upper Gallup		0.00		
7,510.3	7,258.0	Greenhorn		0.00		
7,568.3	7,316.0	Graneros		0.00		
7,618.3	7,366.0	Two Wells		0.00		
7,722.3	7,470.0	Upper Cubero		0.00		
7,756.3	7,504.0	Lower Cubero		0.00		
7,825.3	7,573.0	Encinal		0.00		

REFERENCE INFORMATION

RKB @ 6266.0ft (Original Well Elev)
Ground Elevation 6251.0
Reference Lat: 36° 42' 33.653 N
Reference Long: 107° 30' 23.752 W

Project: San Juan Basin - New Mexico Well
Site: San Juan 29 Wells
Well: SJ 29-6 #61M
Wellbore: Principal Wellbore
Design: Plan #1

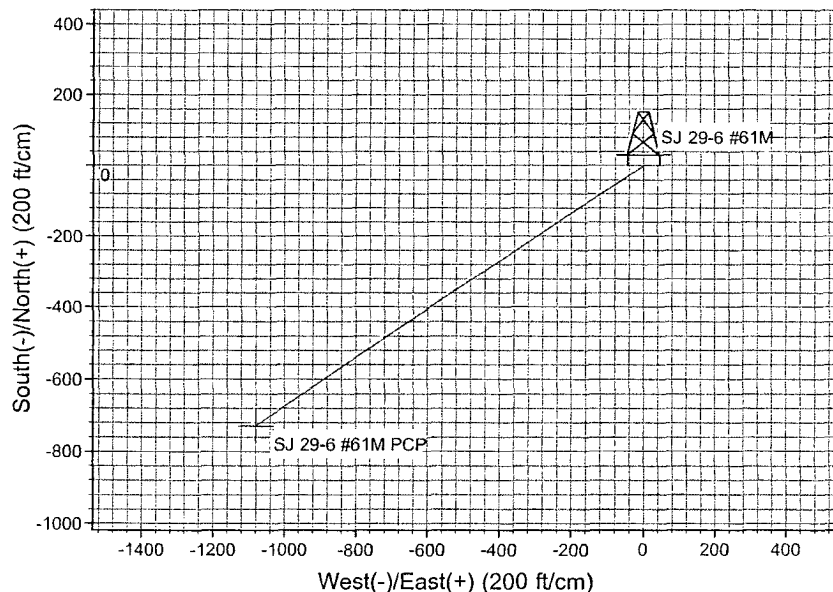
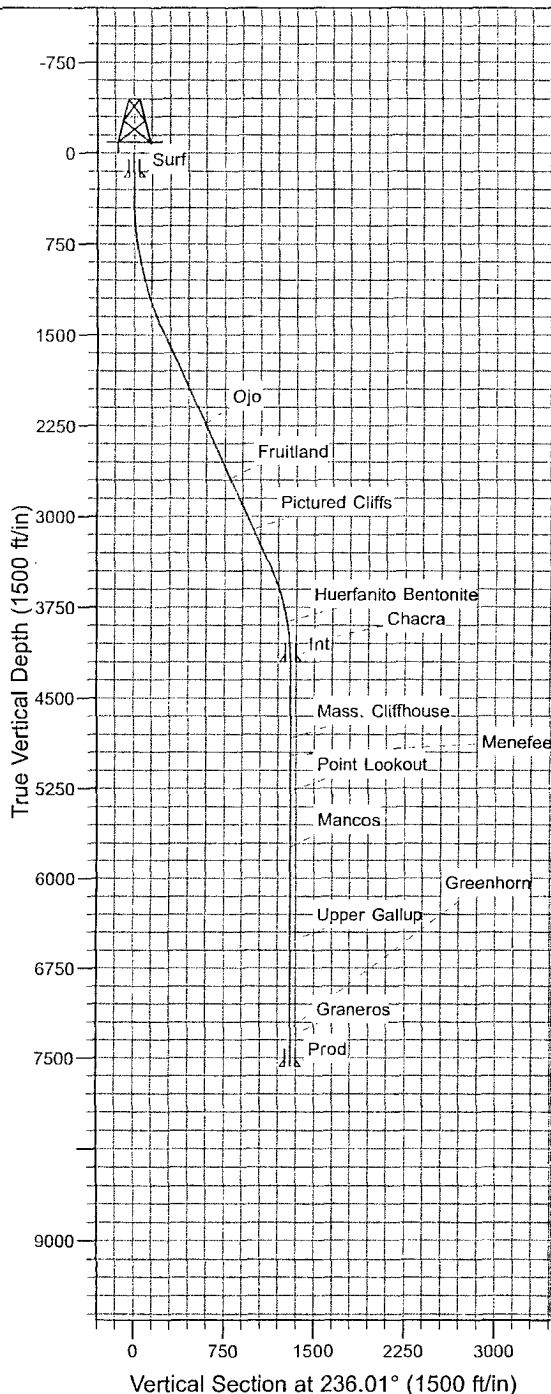
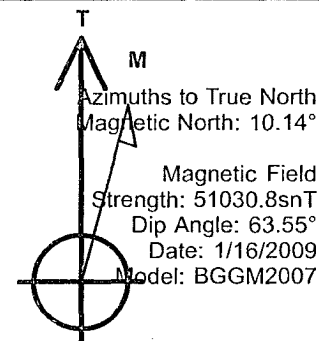


SECTION DETAILS

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	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1552.9	24.66	236.01	1515.2	-146.0	-216.6	2.00	236.01	261.2	
4	3630.3	24.66	236.01	3403.2	-630.5	-935.3	0.00	0.00	1127.9	
5	4452.3	0.00	0.00	4200.0	-727.8	-1079.7	3.00	180.00	1302.1	SJ 29-6 #61M ICP
6	7825.3	0.00	0.00	7573.0	-727.8	-1079.7	0.00	0.00	1302.1	SJ 29-6 #61M PCP

FORMATION TOP DETAILS

VDP	MD	Formation
2231.0	2340.5	Ojo
2376.0	2500.1	Kirtland
2686.0	2841.2	Fruitland
3104.0	3301.1	Pictured Cliffs
3271.0	3484.9	Lewis
3866.0	4116.5	Huerfanito Bentonite
4081.0	4333.2	Chacra
4831.0	5083.3	Mass. Cliffhouse
4974.0	5226.3	Menefee
5274.0	5526.3	Point Lookout
5731.0	5983.3	Mancos
6528.0	6780.3	Upper Gallup
7258.0	7510.3	Greenhorn
7316.0	7568.3	Graneros
7366.0	7618.3	Two Wells
7470.0	7722.3	Upper Cubero
7504.0	7756.3	Lower Cubero
7573.0	7825.3	Encinal



CONOCOPHILLIPS COMPANY

SAN JUAN 29-6 UNIT #61M

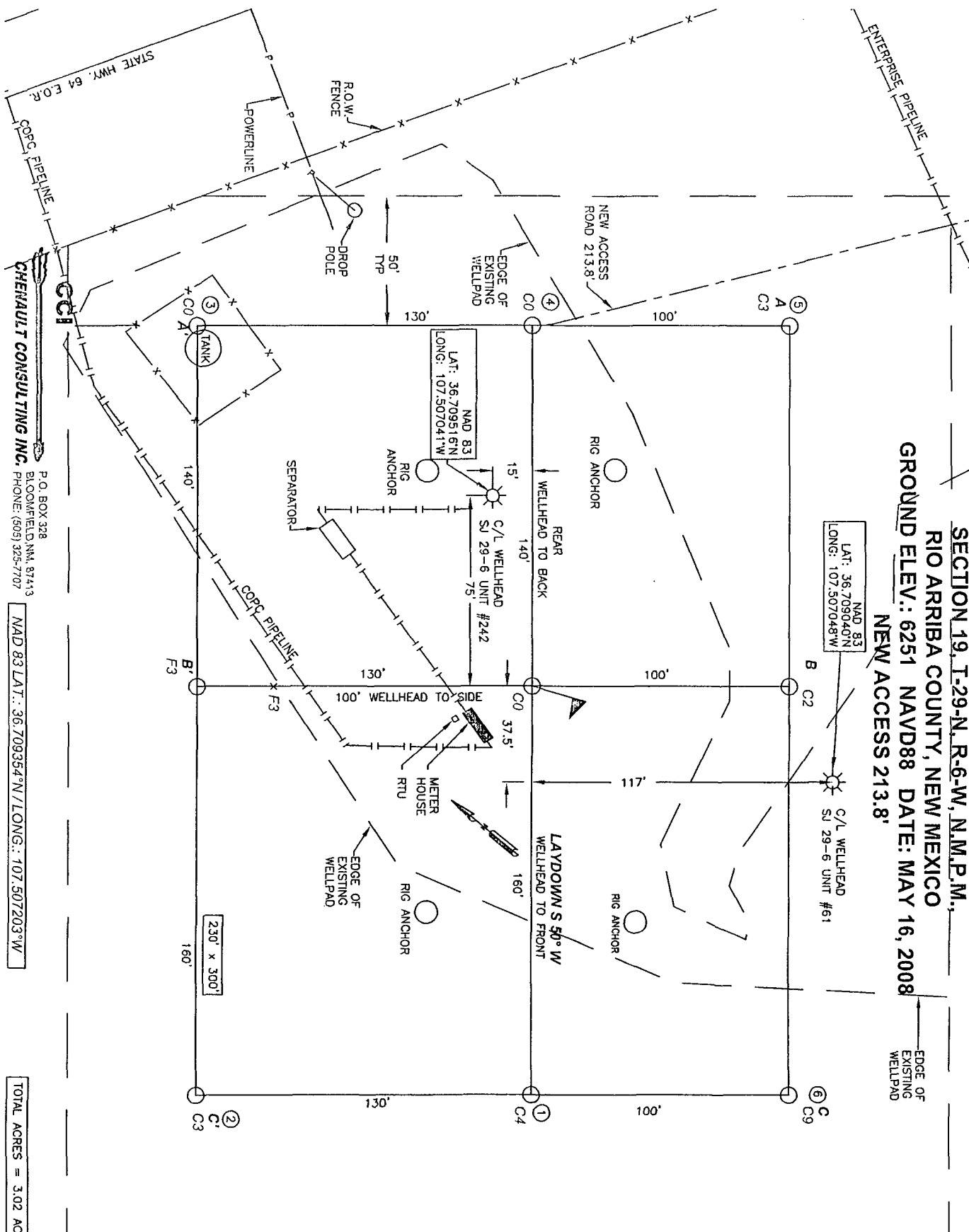
1975' FSL, 1790' FWL

SECTION 19, T-29-N, R-6-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

GROUND ELEV.: 6251 NAVD88 DATE: MAY 16, 2008

NEW ACCESS 213.8'



NOTES:

1. RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND 1' ABOVE SHALLOW SIDE).
2. C.C.I. SURVEYS 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 AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

CHENAULT CONSULTING INC. P.O. BOX 328
BLUOCKFIELD, N.M. 87413
PHONE: (505) 325-7707

NAD 83 LAT.: 36.709354°N / LONG.: 107.507203°W

TOTAL ACRES = 3.02 ACRES

CONOCOPHILLIPS COMPANY

SAN JUAN 29-6 UNIT #61M
1975' FSL, 1790' FWL
SECTION 19, T-29-N, R-6-W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO
NAD 83 LAT.: 36.709354°N LONG.: 107.507203°W
ELEV.: 6251 NAVD88
NEW ACCESS 213.8'

FROM BLOOMFIELD, N.M.:

- AT INTERSECTION OF HWY. 550 AND HWY. 64, GO 29.7 MILES EAST ON HWY. 64 AND TURN RIGHT (SOUTH). ENTER ACCESS THROUGH THE LOCKED GATE AT HWY. 64 ON SOUTH R.O.W. FENCE TO EXISTING WELLS.
- GO 180 FT. SOUTH ON EXISTING ACCESS ROAD. THE NEW 213.8 FT. ACCESS IS ON THE RIGHT (WEST) SIDE OF EXISTING ACCESS ROAD. THIS WELL IS TWINNED WITH SJ 29-6 #242.