

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

DEC 16 2008

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Bureau of Land Management
Farmington Field Office

1a. Type of Work DRILL	5. Lease Number USA SF- 080668 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 San Juan 27-4 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name	
	9. Well Number #94M	
4. Location of Well Surf: Unit K (NESW), 1340' FSL & 1510' FWL <i>BHL: SWNW, 2575' FNL & 855' FWL E</i> Surf: Latitude 36.598571 N. Longitude 107.242415 W.	10. Field, Pool, Wildcat Basin Dakota/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) <i>K</i> Sec. 3, T27N, R4W API # 30-039- <i>30622</i>	
14. Distance in Miles from Nearest Town 46 miles/Blanco, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1510'		
16. Acres in Lease 2557.800	17. Acres Assigned to Well <i>OK</i> MV 319.44 (W/2)	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 52' from San Jaun 27-4 Unit 457		
19. Proposed Depth 8201'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6837' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <i>Jamie Goodwin</i> Jamie Goodwin (Regulatory Technician)	<i>12/9/08</i> Date	

PERMIT NO.

APPROVAL DATE

APPROVED BY *J. Melab*

TITLE *Acting ARM*

DATE *3/25/09*

Archaeological Report attached

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3

and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE

SUBJECT TO COMPLIANCE WITH ATTACHED

"GENERAL REQUIREMENTS".

Hold C104

for Directional Survey
and "As Drilled" plat

NMOCD

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

APR 01 2009
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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
DEC 16 2008
Bureau of Land Management
Farmington Field Office

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 7 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- <u>31022</u>	² Pool Code 71599/72319	³ Pool Name BLANCO MESAVERDE / DAKOTA
⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4 UNIT	⁶ Well Number 94M
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6837

¹⁰ SURFACE LOCATION

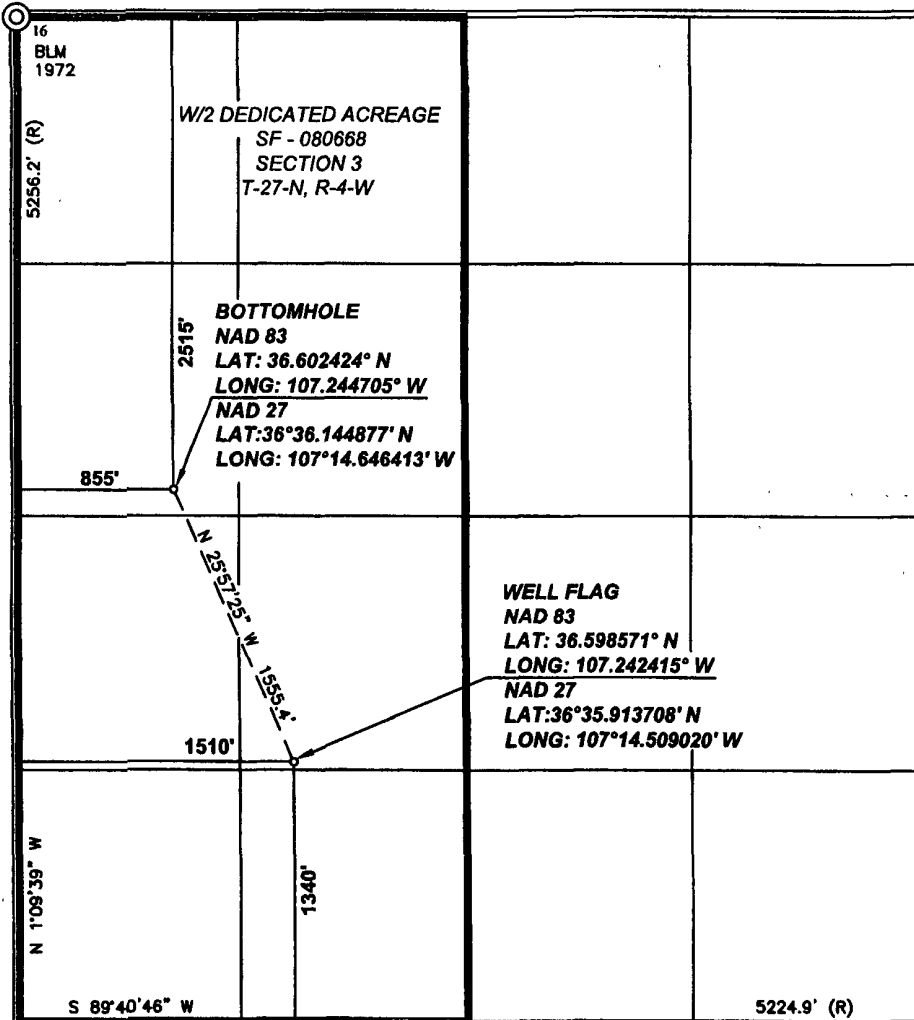
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	3	27-N	4-W		1340	SOUTH	1510	WEST	RIO ARriba

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
E	3	27-N	4-W		2515	NORTH	855	WEST	RIO ARriba

¹² Dedicated Acres 319.44 (W)	¹³ Joint or Infill (2)	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.

Crystal Tafoya 6/18/08
Signature

Crystal Tafoya

Printed Name
Regulatory Technician

Title and E-mail Address
June 18, 2008

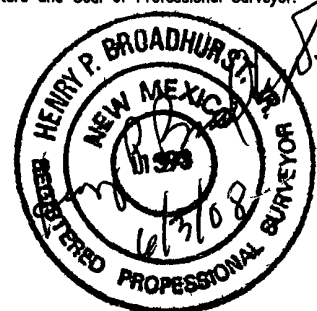
Date

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: 10/16/07

Signature and Seal of Professional Surveyor:



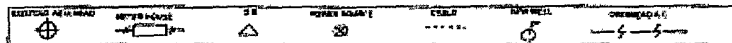
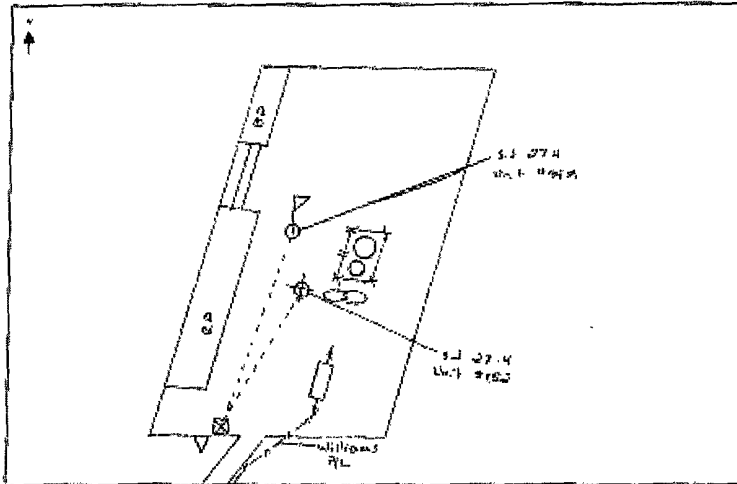
Certificate Number: NM 11393



CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME S-1 27.4 Unit #945 LEGALS U-3-27.4 COUNTY Big Horn

PURPOSED C.P. SYSTEM: Install CR and get new two wire solar @ SW end of location. Trench approx 150' at negative cable from wellhead to solar. Tie in existing well #1 27.4 unit to solar. (Trench approx 150' from wellhead to solar.)



COMMENTS:

NEAREST POWER SOURCE N/A DISTANCE: N/A

PIPELINES IN AREA: Williams Field source

TECHNICIAN: Ed Tapp DATE: 11/1/05

8 CR 5412 BLOOMFIELD, N.M. 87413
OFFICE: 505-634-0271 CELL: 505-783-6863

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 94M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8227				AFE \$:	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: XXX Deferred PDT		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location:							
Latitude: 36.598561		Longitude: -107.241816		X:	Y:	Section: 03	Range: 004W
Footage X: 1510 FWL		Footage Y: 1340 FSL		Elevation: 6837 (FT)		Township: 027N	
Tolerance:							
Location:							
Latitude: 36.602415		Longitude: -107.244106		X:	Y:	Section: 03	Range: 004W
Footage X: 855 FWL		Footage Y: 2515 FNL		Elevation: (FT)		Township: 027N	
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2020		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6852 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	201	6651	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.	
OJO ALAMO	3153	3699	☐				
KIRTLAND	3302	3550	☐				
FRUITLAND	3361	3491	☐			Possible Gas	
PICTURED CLIFFS	3700	3152	☐				
LEWIS	3825	3027	☐				
HUERFANITO BENTONITE	4300	2552	☐				
CHACRA	4720	2132	☐			Est. Top Perf - 4719 (2132)	
Intermediate Casing	4720	2132	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1064 cuft. Circulate cement to surface.	
UPPER CLIFF HOUSE	5306	1546	☐			Gas	
MASSIVE CLIFF HOUSE	5407	1445	☐	711		Gas	
MENESEE	5607	1245	☐				
POINT LOOKOUT	5904	948	☐				
MANCOS	6456	396	☐				
UPPER GALLUP	7075	-223	☐				
GREENHORN	7851	-999	☐				
GRANEROS	7915	-1063	☐				
TWO WELLS	7974	-1122	☐	1400		Gas	
PAGUATE	8023	-1171	☐				
UPPER CUBERO	8061	-1209	☐				
LOWER CUBERO	8103	-1251	☐			Est. Btm Perf - 8132 (-1281) based on offset wells	
OAK CANYON	8155	-1303	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 94M

DEVELOPMENT

Total Depth	8201	-1349	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 476 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	8201	-1349	☐	TD - Top of Encinal

Reference Wells:

Reference Type	Well Name	Comments
Production	SJ 27-4 152	27N-4W3 NW SE SW
Production	SJ 27-4 94	27N-4W3 SE SW SW
Production	SJ 27-4 59M	27N-4W4 SW NE SE
Production	SJ 27-4 59	27N-4W4 NE SW NE

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 Greenhorn to TD - mudlogger will call TD

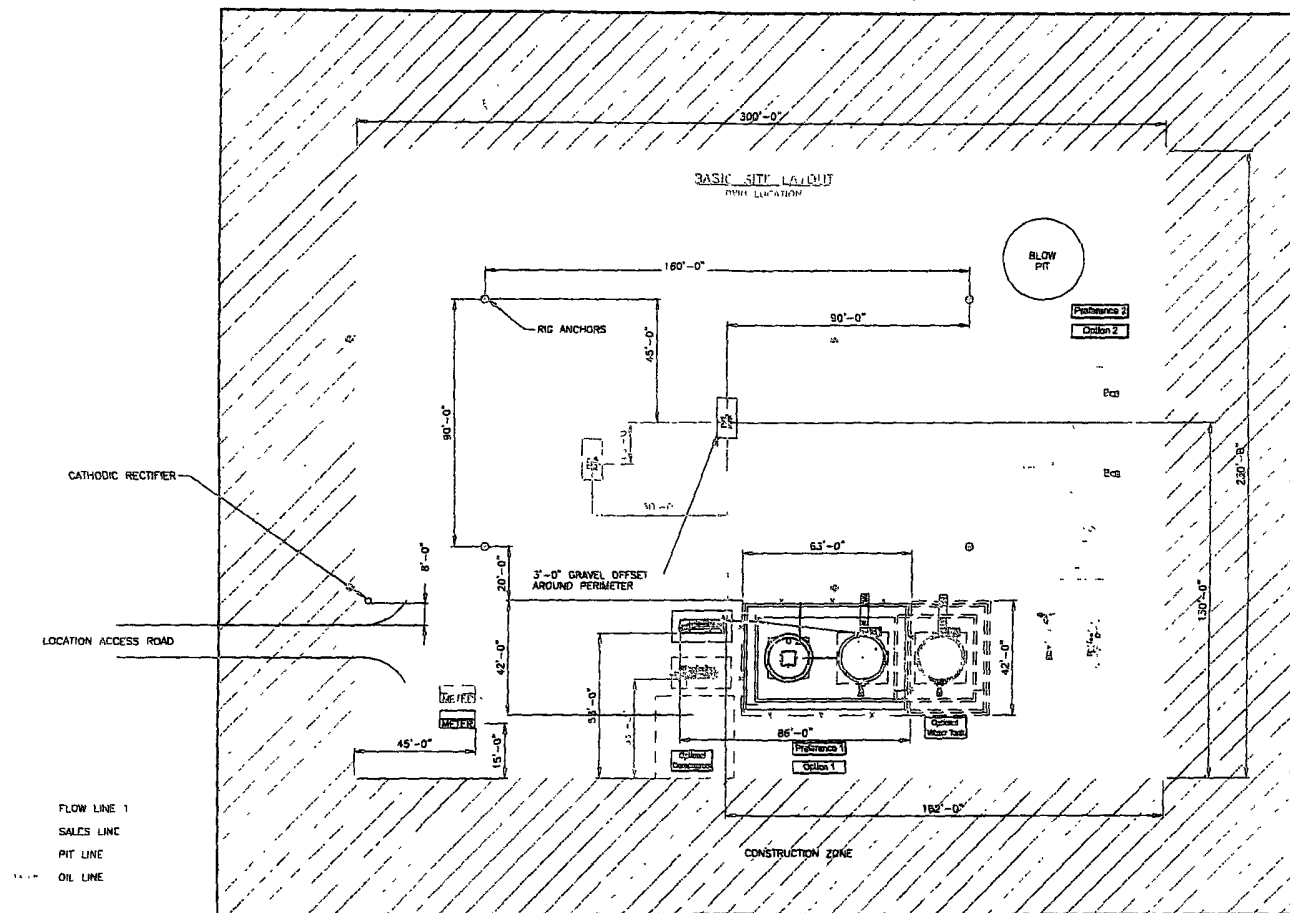
Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well San Juan 27-4 #94M
Company:	ConocoPhillips SJBUI	TVD Reference:	Aztec KB @ 6852 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	Aztec KB @ 6852 0ft (Original Well Elev)
Site:	San Juan 27 wells	North Reference:	True
Well:	San Juan 27-4 #94M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,359.2	3,153.0	OJO ALAMO		0.00		
3,523.6	3,302.0	KIRTLAND		0.00		
3,588.6	3,361.0	FRUITLAND COAL		0.00		
3,962.5	3,700.0	PICTURED CLIFFS		0.00		
4,100.4	3,825.0	LEWIS		0.00		
4,607.2	4,300.0	HUERFANITO BENTONITE		0.00		
5,030.6	4,720.0	CHACRA		0.00		
5,616.6	5,306.0	UPPER CLIFF HOUSE		0.00		
5,717.6	5,407.0	MASSIVE CLIFF HOUSE		0.00		
5,917.6	5,607.0	MENEFEE		0.00		
6,214.6	5,904.0	POINT LOOKOUT		0.00		
6,766.6	6,456.0	MANCOS		0.00		
7,385.6	7,075.0	GALLUP		0.00		
8,161.6	7,851.0	GREENHORN		0.00		
8,225.6	7,915.0	GRANEROS		0.00		
8,284.6	7,974.0	TWO WELLS		0.00		
8,333.6	8,023.0	PAGUATE		0.00		
8,371.6	8,061.0	UPPER CUBERO		0.00		
8,413.6	8,103.0	LOWER CUBERO		0.00		
8,465.6	8,155.0	OAK CANYON		0.00		



SEE SHEET 3 & 4 FOR PIPING DETAILS
ALL UNDERGROUND PIPE IS TO BE BURIED A MIN. OF 3'-0" TOP

SHEET 1 OF 5

ENGINEERING REVIEW										REFERENCE DRAWINGS		CONOCOPhillips				CONOCOPhillips HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
NO.	DESCRIPTION	DATE	REVIEWED	DATE	NO.	DESCRIPTION	DATE	REVIEWED	DATE	NO.	DESCRIPTION	DATE	REVIEWED	DATE	NO.	DESCRIPTION	DATE	REVIEWED	DATE
1	PROCESS				1	PROCESS				1	PROCESS				1	PROCESS			
2	INSTRUMENTS				2	INSTRUMENTS				2	INSTRUMENTS				2	INSTRUMENTS			
3	PIPING				3	PIPING				3	PIPING				3	PIPING			
4	ELECTRICAL				4	ELECTRICAL				4	ELECTRICAL				4	ELECTRICAL			
5	1 & 2				5	1 & 2				5	1 & 2				5	1 & 2			
6	CIVIL/STRUCTURAL				6	CIVIL/STRUCTURAL				6	CIVIL/STRUCTURAL				6	CIVIL/STRUCTURAL			
7	PROJECT				7	PROJECT				7	PROJECT				7	PROJECT			
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San Juan Business Unit High Pressure 3 Phase Facility Diagram- Site Layout, 05/23/2007 - 02/24/2008

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN UNIT #94M

1340' FSL, 1510' FWL

SECTION 3, T-27-N, R-4-W, N.M.P.M.

RIO ARriba COUNTY, NEW MEXICO

NAD 83 LAT.: 36.598571° LONG.: 107.242415°

ELEV.: 6837 NAVD88

NO NEW ACCESS

DRIVING DIRECTIONS FROM BLOOMFIELD, N.M. AT INTERSECTION OF HWY 550 AND HWY 64, TRAVEL EAST ON HWY 64 FOR 36.4 MILES (TO MILE POST 101.1) TURN RIGHT (BY GOBERNADOR SCHOOL) AND TRAVEL SOUTH ON CR 366.

- AT 1.0 MILES, Y IN ROAD, STAY RIGHT ON AMERICAN GENERAL ROAD
- AT 1.3 MILES, CROSS CATTLE GUARD
- AT 3.4 MILES, CROSS CATTLE GUARD
- AT 3.9 MILES, CROSS CATTLE GUARD
- AT 4.4 MILES, ROAD INTERSECTION, STAY STRAIGHT AHEAD
- AT 5.4 MILES, CROSS WASH AND CONTINUE PAST TWIN PEAKS SIGN
- AT 7.1 MILES, CROSS CATTLE GUARD
- AT 8.3 MILES, Y IN ROAD, STAY LEFT PASS SPEED SIGN
- AT 9.5 MILES, Y IN ROAD, STAY LEFT
- AT 10.5 MILES, CROSS CATTLE GUARD
- AT 11.3 MILES, PASS SPEED SIGN
- AT 11.8 MILES, CROSS CATTLE GUARD
- AT 14.7 MILES, #44 WATER HOLE.. RESET ODOMETER .
- GO: 2.5 MILES EAST ON FOREST ROAD 314A, TURN LEFT.
- GO: 1.0 MILES NORTH THROUGH LOCKED GATE INTO VALENCIA CANYON, TO EXISTING WELL LOCATION BROG SAN JUAN 27-4 #152 AND PROPOSED SAN JUAN 27-4 UNIT #94M TWIN ON THIS PAD.