

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED 10/16/08
BLM OFFICE
DENVER

1a. Type of Work DRILL	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	5. Lease Number USA SF-077652 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
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name Oliver SRC 9. Well Number #1N
4. Location of Well Surf: Unit J (NWSE), 1615' FSL & 1810' FEL Bottom: Unit G (SWNE), 2215' FNL & 1810' FEL Surf: Latitude 36.867362 N. Longitude 108.047066 W. BH - Surf: Latitude 36.871176 N. Longitude 108.47047 W.		10. Field, Pool, Wildcat Basin Dakota/Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) J Sec. 25, T31N, R12W API # 30-045-34814
14. Distance in Miles from Nearest Town 4.2 Miles/Aztec, NM		12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1810'		
16. Acres in Lease 2514.580		17. Acres Assigned to Well DK 320.00 (E/2) MV 320.00 (E/2)
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 242' from Oliver 1A		
19. Proposed Depth 7212'	 H ₂ S POTENTIAL EXISTS	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 5958' GL		22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)		<u>10/16/08</u> Date

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

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 10/15/08

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 OCT 22 2008

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMOCD

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH

Held C-104

for Directional Survey
and "As Drilled" plat

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

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

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

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34814	*Pool Code 71599/72319	*Pool Name BASIN DAKOTA/BLANCO MESAVERDE
*Property Code 18594	*Property Name OLIVER SRC	*Well Number 1N
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	*Elevation 5958'

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
J	25	31-N	12-W		1615'	SOUTH	1810'	EAST	SAN JUAN

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
G	25	31-N	12-W		2215'	NORTH	1810'	EAST	SAN JUAN

*Dedicated Acres DK 320.0 ACRE E/2 MV 320.0 ACRE E/2	*Joint or Infill	*Consolidation Code	*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

16 BOTTOM HOLE LAT: 36°52'2704" N. LONG: 108°02'7853" W. NAD 1927 LAT: 36.871176° N. LONG: 108.047047° W. NAD 1983	2641.83'	S 88° 15' 00" W	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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order hereto/ore entered by the division. <i>Crystal Walker 5/1/08</i> Signature Crystal Walker 5-1-08 Printed Name
	2215'	OLIVER, WES ET AL	
		SF-077852	
		BOTTOM HOLE	
		1810'	
25			
SURFACE LAT: 36°52'0416" N. LONG: 108°02'7865" W. NAD 1927 LAT: 36.867362° N. LONG: 108.047066° W. NAD 1983	2639.65'	N 89° 54' 54" W	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. 4-APR-2008 Date of Survey NEW MEXICO 15703 Signature of Professional Surveyor Certificate Number 15703

COMPANY
Charge Code
WELL NAME
DUAL WELL
TRIPLE WELL

BURLINGTON RESOURCES		
WAN.RFE.PDO8.44		
OLIVER SRC # 1 N	DATE	5/2/2008
WELL NAME		
WELL NAME		

	SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
COORDINATES	J 25	31 N	12 W	36 52.0416 N	108 02.7865 W

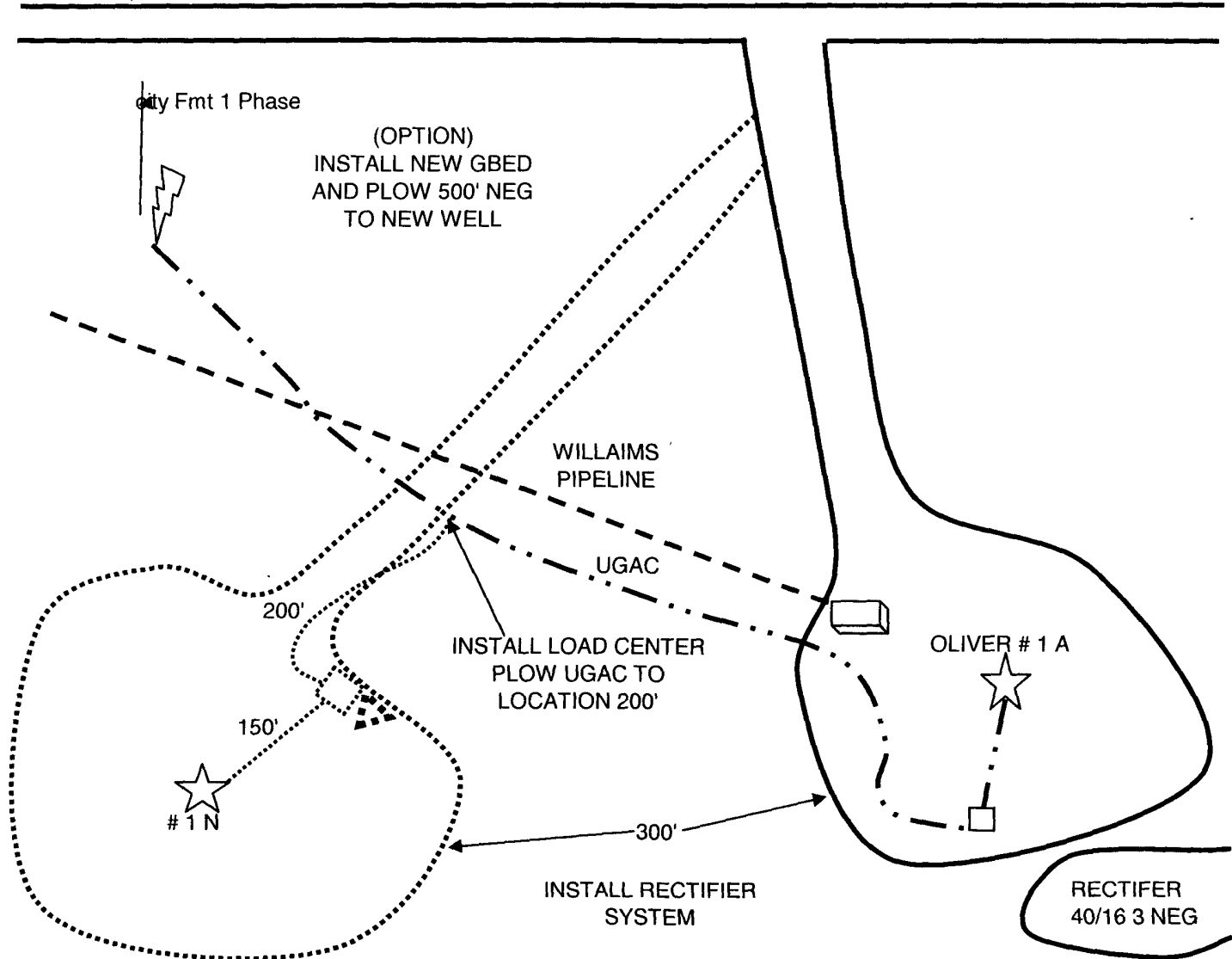
COUNTY	SAN JUAN
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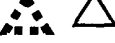
	SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
RECTIFIER	30/12	X			
SOLAR					
GROUND BED		X			
240 V METER POLE		x			
480 V METER POLE					
D C CABLES	# 8	200'			
A C CABLES	# 8	250'			
PRIMARY POWER				city Fmt	
DISTANCE TO POWER				600 ft	
UNDERGROUND					
PUMPJACK					
WATER PUMP					

COMMENTS	install load center - plow UGAC to loc (200 Ft) - install rectifier system -
	Option
	install new G bed - Plow Neg to new well (550 ft

WELL NAME	OLIVER SRC # 1 N
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↑
N



TANK 	SEP OR DEHY 	SOLAR 	METER POLE 	PUMP JACK 	GND/BED EXISTING CABLE 
RECT  	PIT 	WELL 	proposed solar/gb 	PROPOSED CABLE 	POWER LINE 
			FOREIGN PL 	CONOCO PL 	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

OLIVER SRC 1N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8042		AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 730		State: NM County: SAN JUAN	
Geologist:		Phone:		Geophysicist:	
Geoscientist: Riley, Brook		Phone: +1 505-324-6108		Prod. Engineer:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:	

Primary Objective (Zones):	
Zone	Zone Name
FRR	BASIN DAKOTA (PRORATED GAS)
RON	BLANCO MESAVERDE (PRORATED GAS)

Location:		Datum Code: NAD 27			
Latitude: 36.867359	Longitude: -108.046441	X:	Y:	Section: 25	Range: 012W
Footage X: 1810 FEL	Footage Y: 1615 FSL	Elevation: 5958	(FT)	Township: 031N	
Tolerance:					

Location:		Datum Code: NAD 27			
Latitude: 36.871173	Longitude: -108.046422	X:	Y:	Section: 25	Range: 012W
Footage X: 1810 FEL	Footage Y: 2215 FNL	Elevation:	(FT)	Township: 031N	
Tolerance:					

Location Type: Year Round	Start Date (Est.): 1/1/2009	Completion Date:	Date In Operation:
Formation Data: Assume KB = 5973 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	230	5743	☐			12-1/4 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 181 cuft. Circulate cement to surface.
OJO ALAMO	753	5220	☐			
KIRTLAND	828	5145	☐			
FRUITLAND COAL	1936	4037	☐			
PICTURED CLIFFS	2411	3562	☐			
LEWIS	2561	3412	☐			
HUERFANITO BENTONITE	3158	2815	☐			
CHACRA	3506	2467	☐			
UPPER CLIFF HOUSE	3964	2009	☐			Gas
MASSIVE CLIFF HOUSE	4074	1899	☐	485		Gas
MENEFEE	4206	1767	☐			
Intermediate Casing	4350	1623	☐			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 1041 cuft. Circulate cement to surface.
POINT LOOKOUT	4735	1238	☐			
MANCOS	5116	857	☐			
UPPER GALLUP	6029	-56	☐			
GREENHORN	6761	-788	☐			
GRANEROS	6818	-845	☐			
TWO WELLS	6876	-903	☐	1700		Gas
PAGUATE	6936	-963	☐			
CUBERO	6980	-1007	☐			
ENCINAL	7045	-1072	☐			
BURRO CANYON	7121	-1148	☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

OLIVER SRC 1N

DEVELOPMENT

MORRISON	7172	-1199	☐
Total Depth	7212	-1239	☐

6-1/4" hole, 4-1/2" 10.5/11.6 ppf, J-55, STC/LTC casing.
Cement w/ 394 cuft. Circulate cement a minimum of 100' inside the previous casing string.

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 Greenhorn to TD. Mud loggers will call final TD.

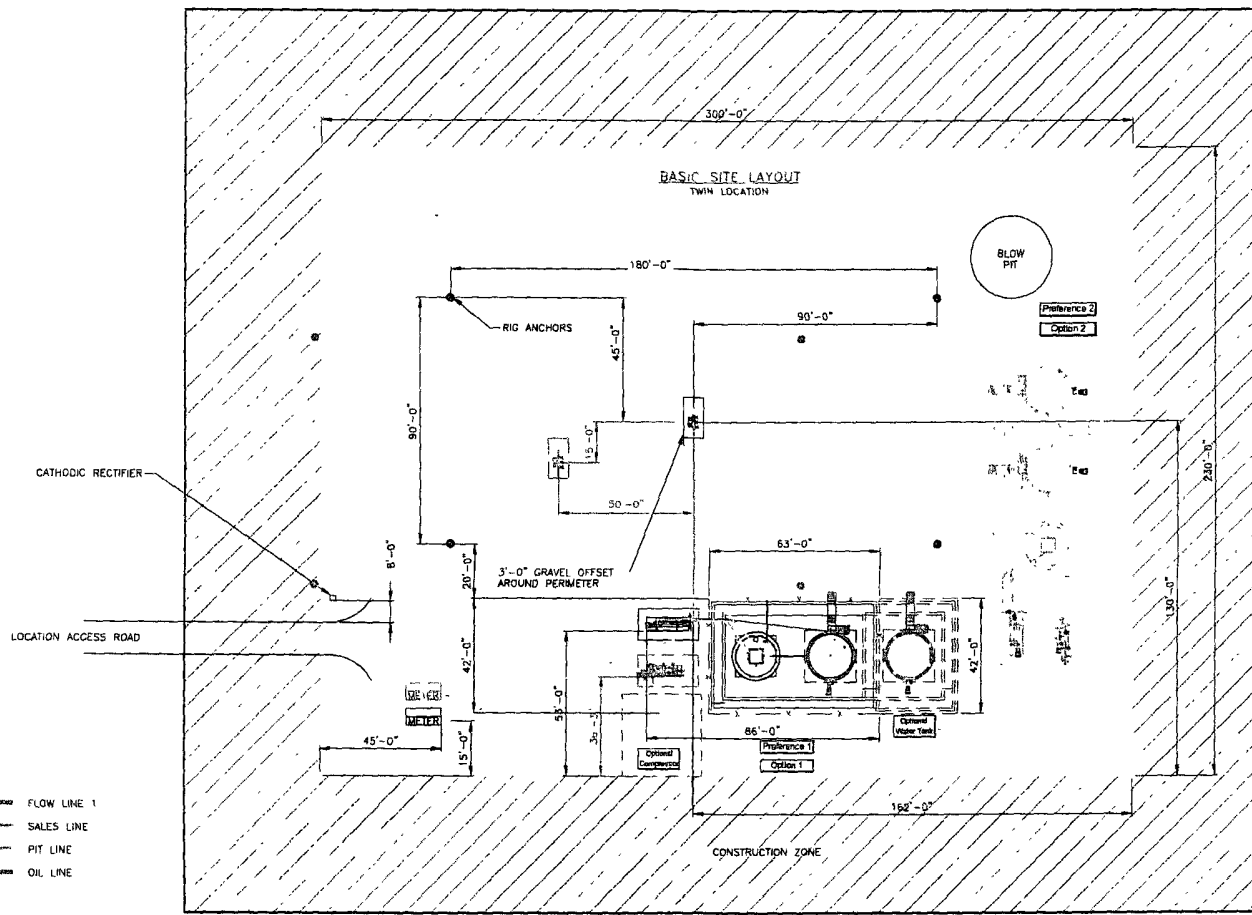
Additional Information:

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 Oliver SRC #1N:
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 5973.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	WELL @ 5973.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Oliver SRC #1N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
753.7	753.0	Ojo Alamo		0.00		
829.6	828.0	Kirtland		0.00		
2,025.8	1,936.0	Fruitland		0.00		
2,548.8	2,411.0	Pictured Cliffs		0.00		
2,714.0	2,561.0	Lewis		0.00		
3,371.3	3,158.0	Huerfano Bentonite		0.00		
3,754.5	3,506.0	Chacra		0.00		
4,239.8	3,964.0	Upper Cliffhouse		0.00		
4,351.5	4,074.0	Massive Cliffhouse		0.00		
4,484.3	4,206.0	Menefee		0.00		
5,013.4	4,735.0	Pt Lookout		0.00		
5,394.4	5,116.0	Mancos Shale		0.00		
6,307.4	6,029.0	Gallup		0.00		
7,039.4	6,761.0	Greenhorn		0.00		
7,096.4	6,818.0	Graneros		0.00		
7,154.4	6,876.0	Two Wells		0.00		
7,214.4	6,936.0	Paguate		0.00		
7,258.4	6,980.0	Cubero		0.00		
7,323.4	7,045.0	Encinal		0.00		
7,399.4	7,121.0	Burro Canyon		0.00		
7,450.4	7,172.0	Morrison		0.00		



- FLOW LINE 1
- SALES LINE
- PIT LINE
- OIL LINE

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 HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT						
										DISCIPLINE	REVIEWED	DATE	NO	DESCRIPTION			CLIENT No.		CLIENT APPR.	APPR. DATE			
										PROCESS						SCALE: NONE		CREATION DATE: 8/25/07		SHEET No. 1 OF 5			
										MECHANICAL													
										PROCESS													
										ELECTRICAL													
										P & I													
										CIVIL/STRUCTURAL													
										PROJECT													
										DESCRIPTION	DATE	BY	CHK'D	ENG	DISC	PRJ	SAN JUAN BUSINESS UNIT						
																				HP3PHASE-REV1			

Path: S:\p\PRJ\SanJuan\Regulatory\San Juan Location Site Layout.dwg, 06/28/2007 - 02:39pm

Directions from the Intersection of Hwy 550
and Hwy 574 In Aztec, NM to
Burlington Resources Oil & Gas Company LP
OLIVER SRC 1N
1615' FSL & 1810' FEL,
Section 25, T31N, R12W, N.M.P.M., San Juan County,
New Mexico
Latitude: 36° 52' 02.5" N
Longitude: 108° 02' 49.4" W
Nad 83

From the Intersection of Hwy. 550 and Hwy 574

Take Hwy. 574 northerly for 3.6 miles

Turn left (westerly) for 0.2 miles

Turn left (southerly) on 0.3 miles

Turn right (westerly) for 0.1 miles

Turn left (southerly) for 300' miles,

To beginning of new access on right side of road,

Continue (southerly) 285.91' to the newly staked location.