

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAR 24 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management

1a. Type of Work DRILL	5. Lease Number SF-078994 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company	7. Unit Agreement Name MV-NMNM-78419A DK-NMNM-78419B San Juan 30-5 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name RCVD APR 9 '10 9. Well Number 38N OIL CONS. DIV. DIST. 3
4. Location of Well Surf: Unit G(SWNE), 1590' FNL & 1500' FEL Bottomhole: Unit H(SENE), 1750' FNL & 385' FEL Surf: Latitude: 36.815522° N (NAD83) Longitude: 107.394795° W Bottomhole: Latitude: 36.815089° N (NAD83) Longitude: 107.390988° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) 6 Sec. 18, T30N, R5W API # 30-039-30959
14. Distance in Miles from Nearest Town 55 miles / Bloomfield	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 385'	
16. Acres in Lease 1,080.00	17. Acres Assigned to Well 320.00 E/2 - MV/DK
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 72' from San Juan 30-5 Unit 38 (DK)	
19. Proposed Depth 7949' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6401' GL	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	<u>3/24/2010</u> Date

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE AFM

DATE 4/6/2010

NOTIFY AZTEC OCD 24 HRS.

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 ES-0048 and ES-0085

Hold C104

for Directional Survey
and "As Drilled" plat

NMOCD

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

APR 13 2010

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

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 7 Copies

Fee Lease - 3 Copies

MAR 24 2010

Bureau of Land Management

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 30959		² Pool Code 71599/72319		³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE	
⁴ Property Code 17260 31327		⁵ Property Name SAN JUAN 30-5 UNIT			⁶ Well Number 38N
⁷ OGRID No. 217817		⁸ Operator Name CONOCOPHILLIPS COMPANY			⁹ Elevation 6401

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
G	18	30-N	5-W		1590	NORTH	1500	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
H	18	30-N	5-W		1750	NORTH	385	EAST	RIO ARRIBA

¹² Dedicated Acres 320.0 (E/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

¹⁶ GLO 1916 N 89°31'49" E N 89°51' E	WELL FLAG NAD 83 LAT: 36.815522° N LONG: 107.394795° W NAD 27 LAT: 36°48.930797' N LONG: 107°23.651597' W		5294.0' (M) 5290.6' (R) 5280.0' (R) 5286.7' (R)	GLO 1916	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. Signature: <i>Crystal Tafuya</i> 1/15/09 Printed Name: Crystal Tafuya Title and E-mail Address: Regulatory Technician Date: January 15th, 2009
					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: 12/31/08 Signature and Seal of Professional Surveyor: <i>[Signature]</i>
					BOTTOM HOLE NAD 83 LAT: 36.815089° N LONG: 107.390988° W NAD 27 LAT: 36°48.905001' N LONG: 107°23.423134' W
					E/2 DEDICATED ACREAGE USA SF-078994 SECTION 18, T-30-N, R-5-W GLO 1916

Certificate Number: NM 11393

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 38N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8229				AFE \$: 1,763,340.48	
Field Name: 30-5		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA		API #:
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						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface		Datum Code: NAD 27				Directional	
Latitude: 36.815515	Longitude: -107.394192	X:	Y:	Section: 18	Range: 005W		
Footage X: 1500 FEL	Footage Y: 1590 FNL	Elevation: 6401	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Directional	
Latitude: 36.815082	Longitude: -107.390385	X:	Y:	Section: 18	Range: 005W		
Footage X: 385 FEL	Footage Y: 1750 FNL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2011		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6416 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	210	6206	☐			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	2446	3970	☐				
KIRTLAND	2594	3822	☐				
FRUITLAND	2743	3673	☐			Possible Gas	
PICTURED CLIFFS	3336	3080	☐				
LEWIS	3478	2938	☐				
Intermediate Casing	3578	2838	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 855 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4101	2315	☐				
CHACRA	4481	1935	☐				
MASSIVE CLIFF HOUSE	5298	1118	☐	360		Gas	
MENEFEE	5336	1080	☐				
POINT LOOKOUT	5586	830	☐				
MANCOS	5981	435	☐				
UPPER GALLUP	6886	-470	☐				
GREENHORN	7609	-1193	☐				
GRANEROS	7667	-1251	☐				
PAGUATE	7792	-1376	☐	2973			
UPPER CUBERO	7798	-1382	☐				
LOWER CUBERO	7844	-1428	☐				
ENCINAL	7919	-1503	☐				
Total Depth	7949	-1533	☐			6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 595 cuft. Circulate cement a minimum of 100' inside the previous casing string.	

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-5 UNIT 38N

DEVELOPMENT

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

Mudlog from ~100' above the Greenhorn to TD. Mudloggers will call final TD. Est bottom perf ~20' above the est 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 SJ 30-5 #38N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6416.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6416.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #38N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
8,020.4	7,798.0	Upper Cubero		0.00	
7,108.4	6,886.0	Gallup		0.00	
3,557.7	3,336.0	Pictured Cliffs		0.00	
5,520.4	5,298.0	Massive Cliffhouse		0.00	
2,936.3	2,743.0	Fruitland		0.00	
3,700.3	3,478.0	Lewis		0.00	
8,066.4	7,844.0	Lower Cubero		0.00	
2,608.7	2,446.0	Ojo Alamo		0.00	
8,141.4	7,919.0	Encinal		0.00	
4,703.4	4,481.0	Chacra		0.00	
4,323.4	4,101.0	Huerf. Bent.		0.00	
5,808.4	5,586.0	Pt. Lookout		0.00	
2,772.0	2,594.0	Kirtland		0.00	
5,558.4	5,336.0	Menefee		0.00	
7,831.4	7,609.0	Greenhorn		0.00	
8,014.4	7,792.0	Paguate		0.00	
7,889.4	7,667.0	Graneros		0.00	
6,203.4	5,981.0	Mancos Shale		0.00	

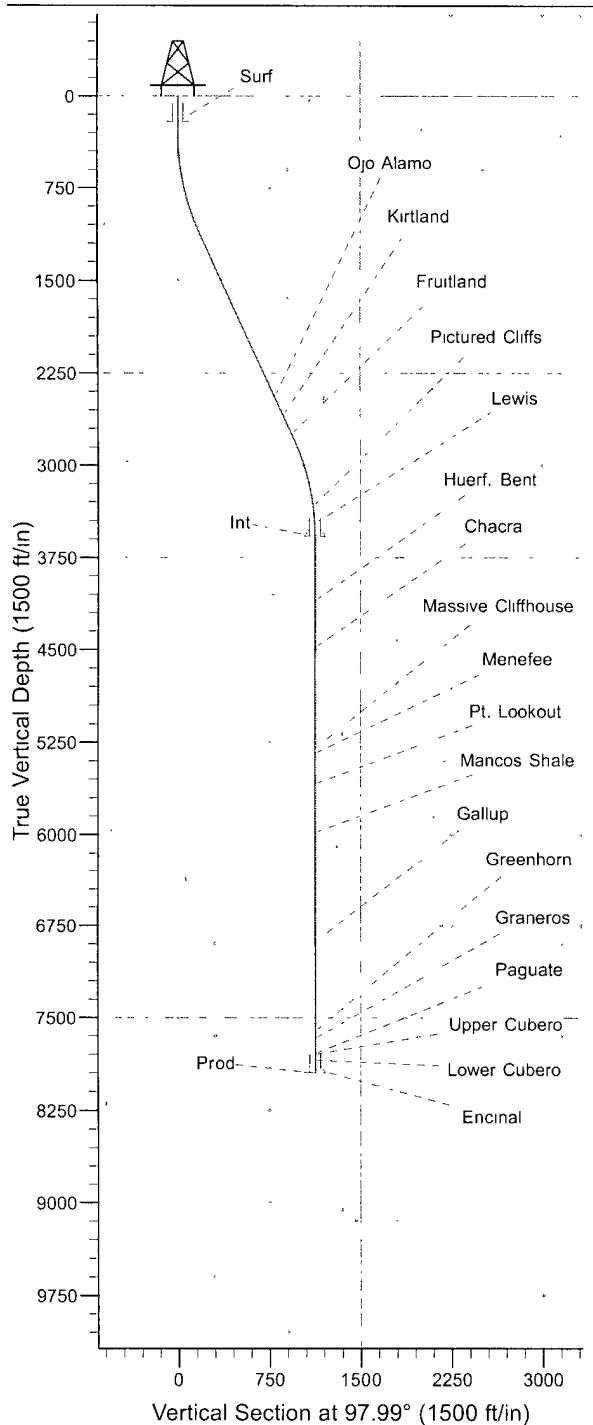
REFERENCE INFORMATION
 KB @ 6416.0ft (Original Well Elev)
 Ground Elevation 6401.0
 Reference Lat. 36° 48' 55.848 N
 Reference Long: 107° 23' 39.096 W

Project: San Juan Basin - New Mexico Wells
 Site: San Juan 30 Wells
 Well: SJ 30-5 #38N
 Wellbore: Wellbore #1
 Design: Plan #1

ConocoPhillips

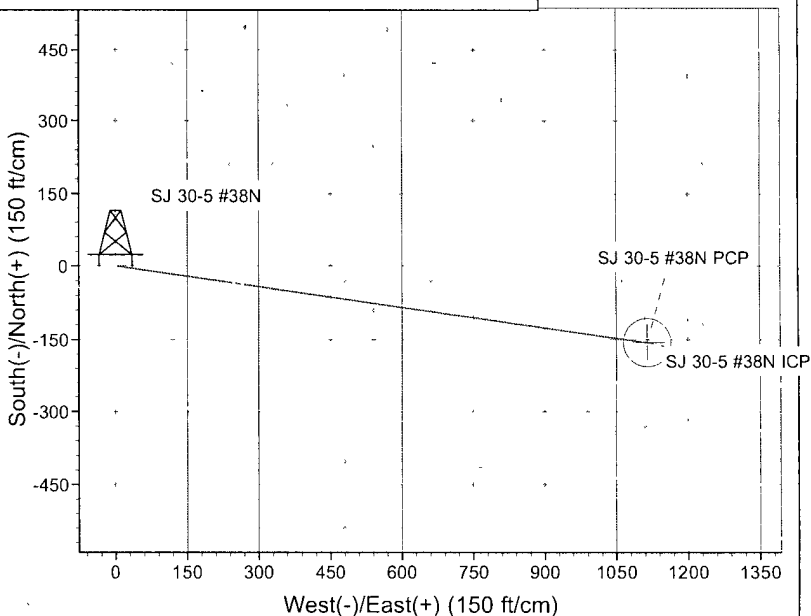
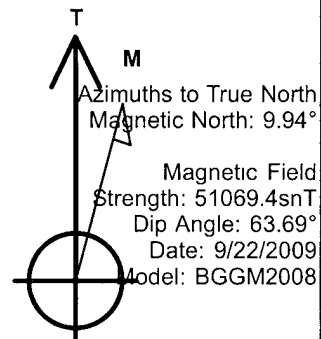
SECTION DETAILS

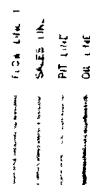
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	315.0	0.00	0.00	315.0	0.0	0.0	0.00	0.00	0.0	
3	1147.3	24.97	97.99	1121.2	-24.8	176.8	3.00	97.99	178.5	
4	2968.0	24.97	97.99	2771.8	-131.7	937.9	0.00	0.00	947.1	
5	3800.4	0.00	0.00	3578.0	-156.5	1114.7	3.00	180.00	1125.6	SJ 30-5 #38N ICP
6	8171.4	0.00	0.00	7949.0	-156.5	1114.7	0.00	0.00	1125.6	SJ 30-5 #38N PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2446.0	2608.7	Ojo Alamo
2594.0	2772.0	Kirtland
2743.0	2936.3	Fruitland
3336.0	3557.7	Pictured Cliffs
3478.0	3700.3	Lewis
4101.0	4323.4	Huerf. Bent.
4481.0	4703.4	Chacra
5298.0	5520.4	Massive Cliffhouse
5336.0	5558.4	Menefee
5586.0	5808.4	Pt. Lookout
5981.0	6203.4	Mancos Shale
6886.0	7108.4	Gallup
7609.0	7831.4	Greenhorn
7667.0	7889.4	Graneros
7792.0	8014.4	Pagate
7798.0	8020.4	Upper Cubero
7844.0	8066.4	Lower Cubero
7919.0	8141.4	Encinal





10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044

[illegible]

CONOCOPHILLIPS COMPANY

SAN JUAN 30-5 UNIT #38N

1590' FNL, 1500' FEL

SECTION 18, T-30-N, R-5-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

NAD 83 LAT.: 36.815522°N LONG.: 107.394795°W

ELEV.: 6401 NAVD88

NO NEW ACCESS

FROM BLOOMFIELD, N.M.:

- GO 37.7 MI. EAST ON HWY. 64 (MILE MARKER 102.3) TURN LEFT (NORTH) ON HWY 527, AKA SIMMS MARINA ROAD.
- GO 8.0 MI. NORTH ON HWY. 527. TURN RIGHT ONTO ROSA ROAD.
- GO 6.4 MI. ALONG ROSA ROAD, CROSSING LA JARA WASH. TURN RIGHT (EASTERLY) AT BLM / FOREST SERVICE WARNING SIGN.
- GO 2.5 MI. CROSSING LA FRAGUA WASH, STAYING ON MAIN ROAD HEADING EAST. TURN LEFT (NORTH) ON WELL ACCESS ROAD.
- GO 0.2 MI. NORTH TO EXISTING SJ 30-5 #38 LOCATION. SJ 30-5 #38N IS TWINNED ON THIS LOCATION.