

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 26 2012

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office
Bureau of Land Management

1a. Type of Work DRILL	5. Lease Number NM-03717 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 RCVD OCT 19 '12 OIL CONS. DIV. DIST. 3	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Houck Com 9. Well Number 2N	
4. Location of Well Surface: Unit E (SW/NW), 1518' FNL & 1115' FWL BHL : Unit D (NW/NW), 710' FNL & 710' FWL Surface: Latitude: 36.74321° N (NAD83) Longitude: 107.93016° W BHL : Latitude: 36.74529° N (NAD83) Longitude: 107.93153° W	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 7, T29N, R10W API # 30-045- 35416	
14. Distance in Miles from Nearest Town 6 miles from Aztec	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710'	17. Acres Assigned to Well 308.28 acres N/2	
16. Acres in Lease 143.920		
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 52' from Houck Com 2 - MV/DK	20. Rotary or Cable Tools Rotary	
19. Proposed Depth 6706'		
21. Elevations (DF, FT, GR, Etc.) 5788' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: Marie E. Jaramillo (Staff Regulatory Tech)	9/26/12 Date	

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 NMB-000015 and NMB-000089

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

for Directional Survey and "As Drilled" plat

Hold C104

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED

OCT 31 2012

NMOCD

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

RECEIVED

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

SEP 26 2012

Revised July 10, 2010

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

Submit one copy to appropriate District Office
Farmington Field Office
Bureau of Land Management.

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 30-045- 35416	² Pool Code 72319/71599	³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 37577	⁵ Property Name HOUCK COM	⁶ Well Number 2N
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 5788'

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
E	7	29N	10W	9	1518'	NORTH	1115'	WEST	SAN JUAN

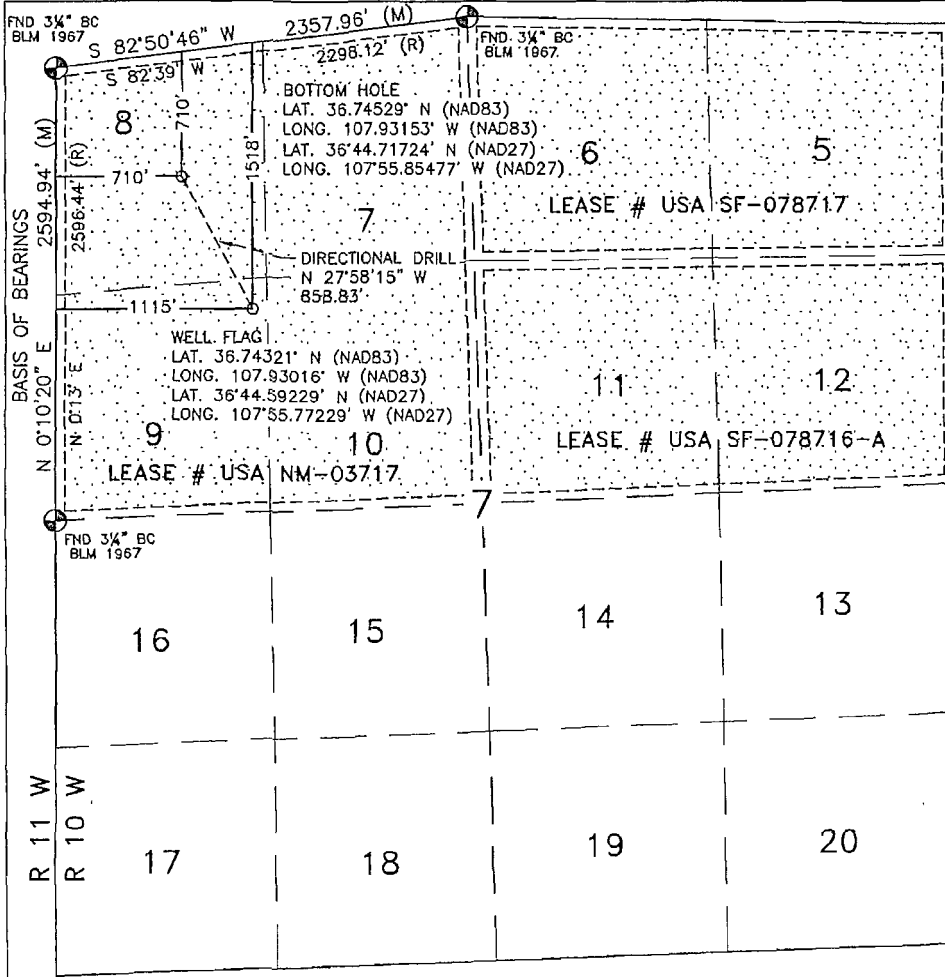
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	7	29N	10W	8	710'	NORTH	710'	WEST	SAN JUAN

¹² Dedicated Acres 308.28 ACRES - N/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-11363
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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



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.

Arleen Kellywood 8/22/12
Signature Date

Arleen Kellywood
Printed Name

arleen.r.kellywood@conocophillips.com

E-mail Address

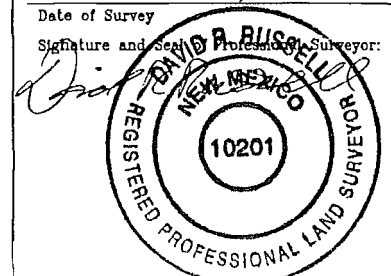
18 SURVEYOR CERTIFICATION

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

APRIL 18, 2011

Date of Survey

Signature and Seal of Professional Surveyor:



DAVID RUSSELL

Certificate Number

10201

BURLINGTON RESOURCES OIL & GAS COMPANY LP

WELL FLAG

LATITUDE: 36.74321° N
LONGITUDE: 107.93016° W
DATUM: NAD 83

E.R.A.

LATITUDE: 36°44'20.9" N
LONGITUDE: 107°55'35.7" W
DATUM: NAD 83

HOUCK COM #2N

1518' FNL & 1115' FWL

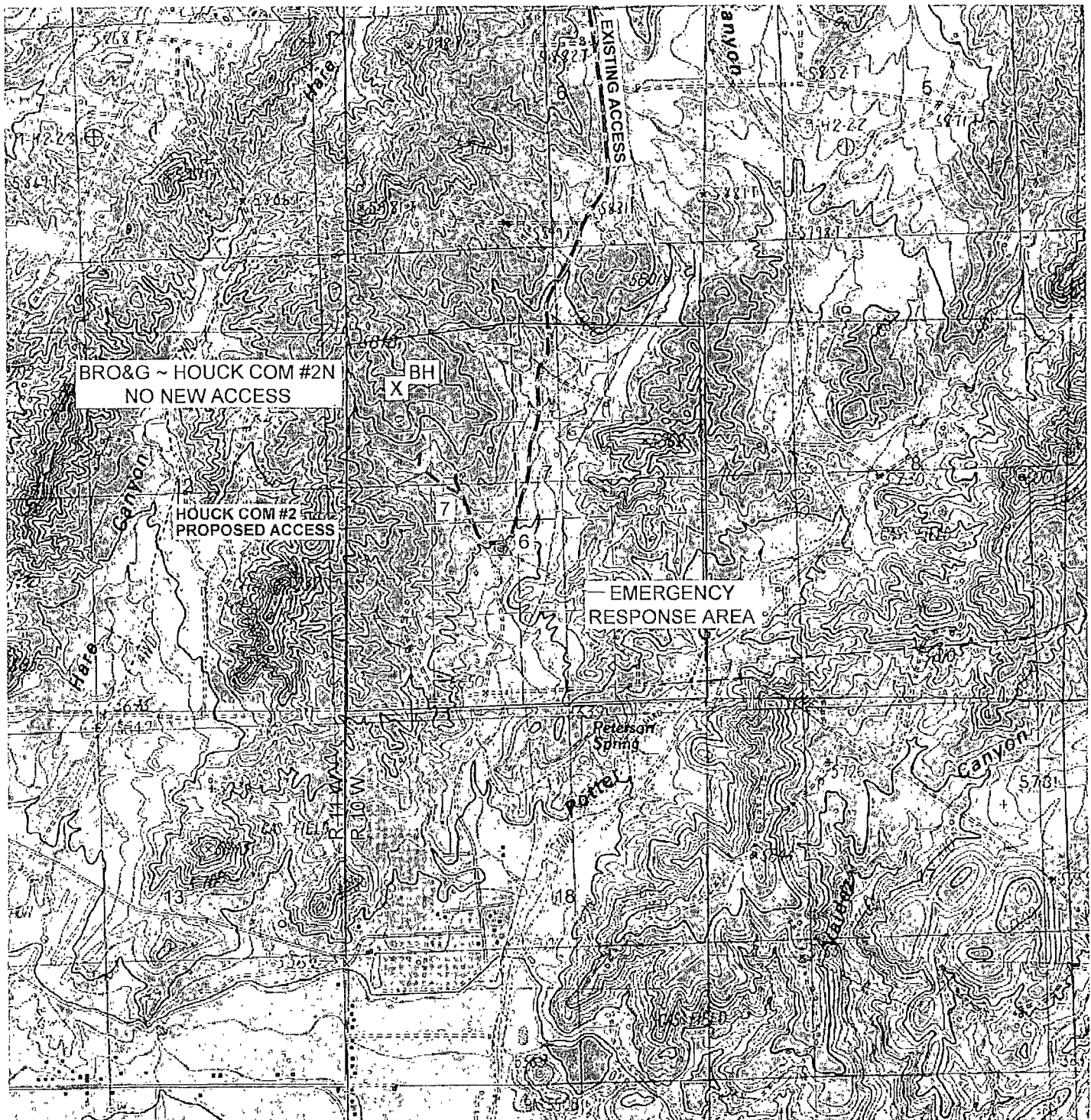
LOCATED IN THE SW/4 NW/4 OF SECTION 7,
T29N, R10W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 5788', NAVD 88

NO NEW ACCESS

USE PROPOSED ACCESS FOR THE HOUCK COM #2



U.S.G.S. QUAD: BLOOMFIELD
SCALE: 1" = 2000' (1:24,000)
JOB No.: COPC418-REV1
DATE: 04/22/11

NEW OR RECONSTRUCTED ROADS MUST MEET
SMA DESIGN STANDARDS
INSTALL CULVERTS AS NEEDED



Russell Surveying
1409 W. Aztec Blvd. #2
Aztec, New Mexico 87410
(505) 334-8637

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HOUCK COM 2N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.1009				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 730		State: NM	County: SAN JUAN		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: 36.743205	Longitude: -107.929539	X:	Y:	Section: 07		Range: 010W	
Footage X: 1115 FWL	Footage Y: 1518 FNL	Elevation: 5788	(FT)	Township: 029N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.745285	Longitude: -107.930909	X:	Y:	Section: 07		Range: 010W	
Footage X: 710 FWL	Footage Y: 710 FNL	Elevation:	(FT)	Township: 029N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 5803		Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	215	5588		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 1221 cuft. Circulate cement to surface.
OJO ALAMO	794	5009		☐			121
KIRTLAND	991	4812		☐			
FRUITLAND	1617	4186		☐			Possible Gas
PICTURED CLIFFS	2136	3667		☐			
LEWIS	2230	3573		☐			
HUERFANITO BENTONITE	2917	2886		☐			
CHACRA	3146	2657		☐			
UPPER CLIFF HOUSE	3725	2078		☐			Gas; Cliffhouse is wet
MASSIVE CLIFF HOUSE	3808	1995		☐	387		Gas;
MENEFEE	3852	1951		☐			Est. Top Perf - 3854 (1949)
Intermediate Casing	4002	1801		☐		137	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 937 cuft. Circulate cement to surface.
POINT LOOKOUT	4457	1346		☐			
MANCOS	4820	983		☐			
UPPER GALLUP	5679	124		☐			
GREENHORN	6427	-624		☐			
GRANEROS	6484	-681		☐			
TWO WELLS	6549	-746		☐	1700		Gas
PAGUATE	6602	-799		☐			
LOWER CUBERO	6660	-857		☐			Est. Btm Perf - 6691 (- 888) based on offset wells
UPPER CUBERO	6660	-857		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HOUCK COM 2N

DEVELOPMENT

ENCINAL	6706	-903	☐	TD - T/ENCN
Total Depth	6706	-903	☐	193 6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 358 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	GARRETT FED COM-1-E	29N 11W 12 SE NW NE
Production	POTTER CANYON-1	29N 10W 7 SW NE
Production	GRENIER B-5	29N 10W 6 NW SW

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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Comments:

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Houck Com 2N
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 5803.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 5803.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Houck Com 2N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"		
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		Other Named Wells			
Site Position:		Northing:	2,108,178.26 usft	Latitude:	36° 47' 33.793 N
From:	Lat/Long	Easting:	643,887.63 usft	Longitude:	107° 20' 30.932 W
Position Uncertainty:	15.0 usft	Slot Radius:	6-1/8"	Grid Convergence:	0.29 °

Well	Houck Com 2N					
Well Position	+N-S	0.0 usft	Northing:	2,089,796.96 usft	Latitude:	36° 44' 35.537 N
	+E-W	0.0 usft	Easting:	471,812.53 usft	Longitude:	107° 55' 46.337 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	5,788.0 usft	

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	8/16/2012	9.82	63.40	50,561

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	0.0	0.0	0.0	332.08

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	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	
1,532.1	24.24	332.08	1,496.3	223.2	-118.3	2.00	2.00	0.00	332.08	
2,597.6	24.24	332.08	2,467.8	609.8	-323.2	0.00	0.00	0.00	0.00	
3,405.7	0.00	0.00	3,252.0	758.6	-402.0	3.00	-3.00	0.00	180.00	
4,155.7	0.00	0.00	4,002.0	758.6	-402.0	0.00	0.00	0.00	0.00	Houck Com 2N - ICP
6,859.7	0.00	0.00	6,706.0	758.6	-402.0	0.00	0.00	0.00	0.00	Houck Com 2N - PCP

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Houck Com 2N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 5803.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 5803.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Houck Com 2N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
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	
215 0	0 00	0 00	215 0	0 0	0 0	0 0	0 00	0 00	0 00	
SCP										
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	332 08	400 0	1 0	-0 5	1 1	2 00	2 00	0 00	
500 0	3 60	332 08	499 9	5 0	-2 6	5 7	2 00	2 00	0 00	
600 0	5 60	332 08	599 6	12 1	-6 4	13 7	2 00	2 00	0 00	
700 0	7 60	332 08	698 9	22 2	-11 8	25 2	2 00	2 00	0 00	
796 2	9 52	332 08	794 0	34 9	-18 5	39 5	2 00	2 00	0 00	
Ojo Alamo										
800 0	9 60	332 08	797 8	35 4	-18 8	40 1	2 00	2 00	0 00	
900 0	11 60	332 08	896 0	51 7	-27 4	58 5	2 00	2 00	0 00	
997 3	13 55	332 08	991 0	70 4	-37 3	79 7	2 00	2 00	0 00	
Kirtland										
1,000 0	13 60	332 08	993 6	71 0	-37 6	80 3	2 00	2 00	0 00	
1,100 0	15 60	332 08	1,090 4	93 2	-49 4	105 5	2 00	2 00	0 00	
1,200 0	17 60	332 08	1,186 2	118 5	-62 8	134 1	2 00	2 00	0 00	
1,300 0	19 60	332 08	1,281 0	146 7	-77 7	166 0	2 00	2 00	0 00	
1,400 0	21 60	332 08	1,374 6	177 8	-94 2	201 2	2 00	2 00	0 00	
1,500 0	23 60	332 08	1,466 9	211 7	-112 2	239 6	2 00	2 00	0 00	
1,532 1	24 24	332 08	1,496 3	223 2	-118 3	252 6	2 00	2 00	0 00	
1,600 0	24 24	332 08	1,558 2	247 8	-131 3	280 5	0 00	0 00	0 00	
1,664 5	24 24	332 08	1,617 0	271 3	-143 8	307 0	0 00	0 00	0 00	
Fruitland										
1,700 0	24 24	332 08	1,649 4	284 1	-150 6	321 6	0 00	0 00	0 00	
1,800 0	24 24	332 08	1,740 5	320 4	-169 8	362 6	0 00	0 00	0 00	
1,900 0	24 24	332 08	1,831 7	356 7	-189 0	403 7	0 00	0 00	0 00	
2,000 0	24 24	332 08	1,922 9	393 0	-208 3	444 7	0 00	0 00	0 00	
2,100 0	24 24	332 08	2,014 1	429 2	-227 5	485 8	0 00	0 00	0 00	
2,200 0	24 24	332 08	2,105 3	465 5	-246 7	526 9	0 00	0 00	0 00	
2,233 7	24 24	332 08	2,136 0	477 8	-253 2	540 7	0 00	0 00	0 00	
Pictured Cliffs										
2,300 0	24 24	332 08	2,196 4	501 8	-265 9	567 9	0 00	0 00	0 00	
2,336 8	24 24	332 08	2,230 0	515 2	-273 0	583 0	0 00	0 00	0 00	
Lewis										
2,400 0	24 24	332 08	2,287 6	538 1	-285 2	609 0	0 00	0 00	0 00	
2,500 0	24 24	332 08	2,378 8	574 4	-304 4	650 0	0 00	0 00	0 00	
2,597 6	24 24	332 08	2,467 8	609 8	-323 2	690 1	0 00	0 00	0 00	
2,600 0	24 17	332 08	2,470 0	610 6	-323 6	691 1	3 00	-3 00	0 00	
2,700 0	21 17	332 08	2,562 2	644 7	-341 7	729 6	3 00	-3 00	0 00	
2,800 0	18 17	332 08	2,656 4	674 4	-357 4	763 3	3 00	-3 00	0 00	
2,900 0	15 17	332 08	2,752 2	699 8	-370 9	792 0	3 00	-3 00	0 00	
3,000 0	12 17	332 08	2,849 3	720 7	-381 9	815 6	3 00	-3 00	0 00	
3,069 0	10 10	332 08	2,917 0	732 4	-388 2	828 9	3 00	-3 00	0 00	
Huerfano-Bentonite										
3,100 0	9 17	332 08	2,947 6	737 0	-390 6	834 1	3 00	-3 00	0 00	
3,200 0	6 17	332 08	3,046 7	748 8	-396 8	847 5	3 00	-3 00	0 00	
3,299 6	3 18	332 08	3,146 0	756 0	-400 7	855 6	3 00	-3 00	0 00	
Chacara										
3,300 0	3 17	332 08	3,146 4	756 0	-400 7	855 6	3 00	-3 00	0 00	

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Houck Com 2N
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 5803.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 5803.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Houck Com 2N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,400.0	0.17	332.08	3,246.3	758.6	-402.0	858.5	3.00	-3.00	0.00	
3,405.7	0.00	0.00	3,252.0	758.6	-402.0	858.5	3.00	-3.00	0.00	
3,500.0	0.00	0.00	3,346.3	758.6	-402.0	858.5	0.00	0.00	0.00	
3,600.0	0.00	0.00	3,446.3	758.6	-402.0	858.5	0.00	0.00	0.00	
3,700.0	0.00	0.00	3,546.3	758.6	-402.0	858.5	0.00	0.00	0.00	
3,800.0	0.00	0.00	3,646.3	758.6	-402.0	858.5	0.00	0.00	0.00	
3,878.7	0.00	0.00	3,725.0	758.6	-402.0	858.5	0.00	0.00	0.00	
Upper Cliffhouse										
3,900.0	0.00	0.00	3,746.3	758.6	-402.0	858.5	0.00	0.00	0.00	
3,961.7	0.00	0.00	3,808.0	758.6	-402.0	858.5	0.00	0.00	0.00	
Massive Cliffhouse										
4,000.0	0.00	0.00	3,846.3	758.6	-402.0	858.5	0.00	0.00	0.00	
4,005.7	0.00	0.00	3,852.0	758.6	-402.0	858.5	0.00	0.00	0.00	
Menefee										
4,100.0	0.00	0.00	3,946.3	758.6	-402.0	858.5	0.00	0.00	0.00	
4,155.7	0.00	0.00	4,002.0	758.6	-402.0	858.5	0.00	0.00	0.00	
ICP										
4,200.0	0.00	0.00	4,046.3	758.6	-402.0	858.5	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,146.3	758.6	-402.0	858.5	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,246.3	758.6	-402.0	858.5	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,346.3	758.6	-402.0	858.5	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,446.3	758.6	-402.0	858.5	0.00	0.00	0.00	
4,610.7	0.00	0.00	4,457.0	758.6	-402.0	858.5	0.00	0.00	0.00	
Point Lookout										
4,700.0	0.00	0.00	4,546.3	758.6	-402.0	858.5	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,646.3	758.6	-402.0	858.5	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,746.3	758.6	-402.0	858.5	0.00	0.00	0.00	
4,973.7	0.00	0.00	4,820.0	758.6	-402.0	858.5	0.00	0.00	0.00	
Mancos										
5,000.0	0.00	0.00	4,846.3	758.6	-402.0	858.5	0.00	0.00	0.00	
5,100.0	0.00	0.00	4,946.3	758.6	-402.0	858.5	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,046.3	758.6	-402.0	858.5	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,146.3	758.6	-402.0	858.5	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,246.3	758.6	-402.0	858.5	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,346.3	758.6	-402.0	858.5	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,446.3	758.6	-402.0	858.5	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,546.3	758.6	-402.0	858.5	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,646.3	758.6	-402.0	858.5	0.00	0.00	0.00	
5,832.7	0.00	0.00	5,679.0	758.6	-402.0	858.5	0.00	0.00	0.00	
Upper Gallup										
5,900.0	0.00	0.00	5,746.3	758.6	-402.0	858.5	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,846.3	758.6	-402.0	858.5	0.00	0.00	0.00	
6,100.0	0.00	0.00	5,946.3	758.6	-402.0	858.5	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,046.3	758.6	-402.0	858.5	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,146.3	758.6	-402.0	858.5	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,246.3	758.6	-402.0	858.5	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,346.3	758.6	-402.0	858.5	0.00	0.00	0.00	
6,580.7	0.00	0.00	6,427.0	758.6	-402.0	858.5	0.00	0.00	0.00	
Greenhorn										
6,600.0	0.00	0.00	6,446.3	758.6	-402.0	858.5	0.00	0.00	0.00	
6,637.7	0.00	0.00	6,484.0	758.6	-402.0	858.5	0.00	0.00	0.00	
Graneros										

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Houck Com 2N
Company:	ConocoPhillips-SJBU	TVD Reference:	WELL @ 5803.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 5803.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Houck Com 2N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,700.0	0.00	0.00	6,546.3	758.6	-402.0	858.5	0.00	0.00	0.00	
6,702.7	0.00	0.00	6,549.0	758.6	-402.0	858.5	0.00	0.00	0.00	
Two Wells										
6,755.7	0.00	0.00	6,602.0	758.6	-402.0	858.5	0.00	0.00	0.00	
Paguate										
6,800.0	0.00	0.00	6,646.3	758.6	-402.0	858.5	0.00	0.00	0.00	
6,813.7	0.00	0.00	6,660.0	758.6	-402.0	858.5	0.00	0.00	0.00	
Upper Cubero - Lower Cubero										
6,859.7	0.00	0.00	6,706.0	758.6	-402.0	858.5	0.00	0.00	0.00	
Encinal - PCP										

Targets									
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Houck Com 2N - PCP	0.00	0.00	6,706.0	758.6	-402.0	2,090,555.49	471,410.57	36° 44' 43.034 N	107° 55' 51.286 W
- plan hits target center									
- Point									
Houck Com 2N - ICP	0.00	0.00	4,002.0	758.6	-402.0	2,090,555.49	471,410.54	36° 44' 43.034 N	107° 55' 51.286 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
215.0	215.0	SCP	9-5/8	12-1/32	
4,155.7	4,002.0	ICP	7	8-3/4	
6,859.7	6,706.0	PCP	4-1/2	6-1/4	

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Houck Com 2N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 5803.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 5803.0usft (Original Well Elev)
Site:	Other Named Wells	North Reference:	Grid
Well:	Houck Com 2N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

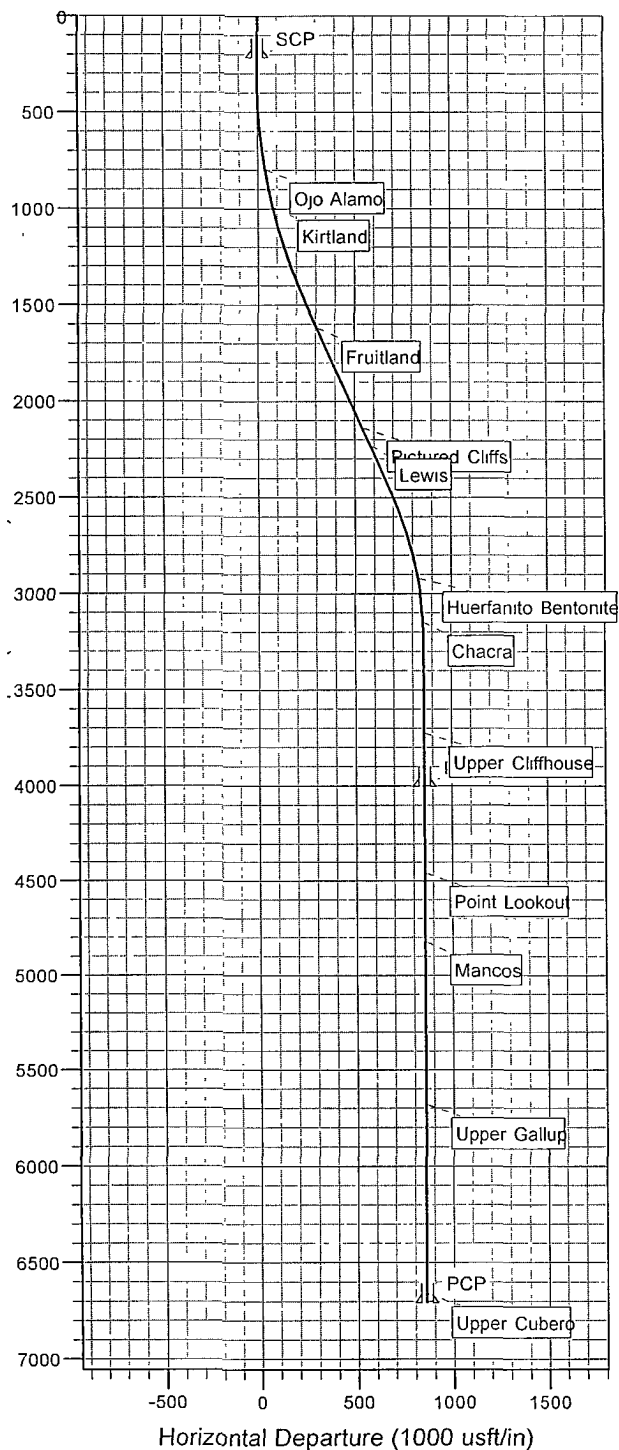
Formations							
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction		
2,233.7	2,136.0	Pictured Cliffs		0.00			
6,813.7	6,660.0	Upper Cubero		0.00			
997.3	991.0	Kirtland		0.00			
6,702.7	6,549.0	Two Wells		0.00			
4,610.7	4,457.0	Point Lookout		0.00			
3,878.7	3,725.0	Upper Cliffhouse		0.00			
3,299.6	3,146.0	Chacra		0.00			
1,664.5	1,617.0	Fruitland		0.00			
4,973.7	4,820.0	Mancos		0.00			
2,336.8	2,230.0	Lewis		0.00			
3,069.0	2,917.0	Huerfano Bentonite		0.00			
6,580.7	6,427.0	Greenhorn		0.00			
6,755.7	6,602.0	Paguate		0.00			
6,859.7	6,706.0	Encinal		0.00			
796.2	794.0	Ojo Alamo		0.00			
6,637.7	6,484.0	Graneros		0.00			
5,832.7	5,679.0	Upper Gallup		0.00			
6,813.7	6,660.0	Lower Cubero		0.00			
4,005.7	3,852.0	Menefee		0.00			
3,961.7	3,808.0	Massive Cliffhouse		0.00			

ELL @ 5803.0usft (Original Well Elev)
 Round Elevation 5788.0
 Reference Lat: 36° 44' 35.537 N
 Reference Long: 107° 55' 46.337 W

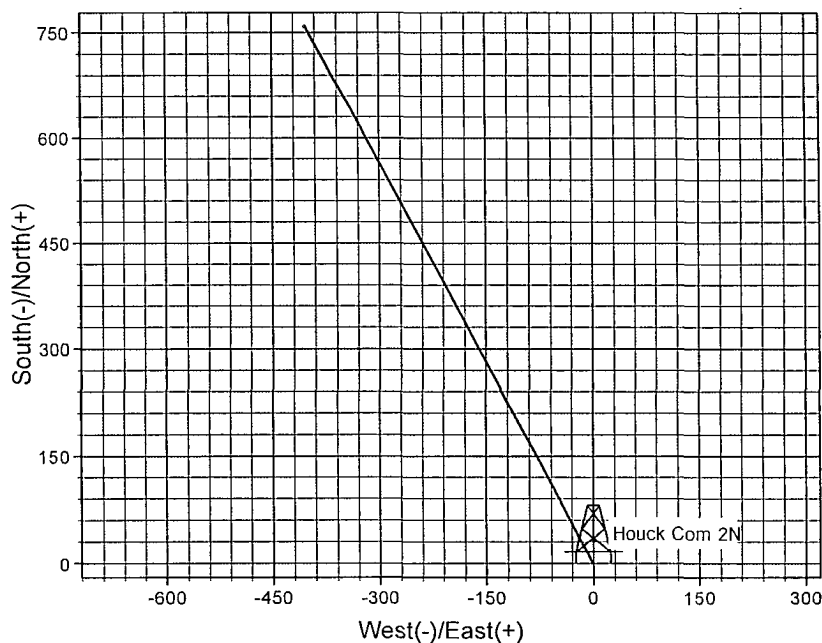
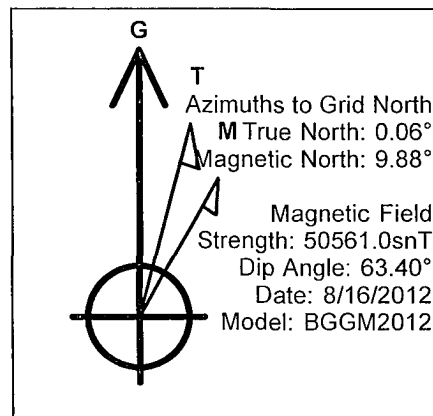
Project: San Juan Basin - New Mexico West v
 Site: Other Named Wells
 Well: Houck Com 2N
 Wellbore: Wellbore #1
 Design: Design #1

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	1532.1	24.24	332.08	1496.3	223.2	-118.3	2.00	332.08	252.6	
4	2597.6	24.24	332.08	2467.8	609.8	-323.2	0.00	0.00	690.1	
5	3405.7	0.00	0.00	3252.0	758.6	-402.0	3.00	180.00	858.5	
6	4155.7	0.00	0.00	4002.0	758.6	-402.0	0.00	0.00	858.5	Houck Com 2N - ICP
7	6859.7	0.00	0.00	6706.0	758.6	-402.0	0.00	0.00	858.5	Houck Com 2N - PCP



FORMATION TOP DETAILS



BURLINGTON
RESOURCES
Operator Certification

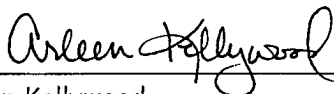
Operator Information:

Burlington Resources Oil & Gas, LP
P.O. Box 4289
Farmington, NM 87499-4289
505-326-9700

Certification:

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provision of 18 U.S.C. 1001 for the filing of false statements.

Executed this 2nd day of August, 2011.



Arleen Kellywood
Staff Regulatory Technician
On behalf of Sharon Zubrod and Virgil Chavez

The person who can be contacted concerning compliance of the APD is:

Sharon Zubrod,
Regulatory Compliance Manager
ConocoPhillips Company
P.O. Box 4289
Farmington, NM 87499-4289
505-326-9793

The Field Representative who can be contacted concerning compliance of the enclosed Surface Use Plan is:

Virgil Chavez,
Construction Supervisor
ConocoPhillips Company
P.O. Box 4289
Farmington, NM 87499-4289
505-326-9845

BURLINGTON RESOURCES OIL & GAS COMPANY LP

HOUCK COM #2N

1518' FNL & 1115' FWL

LOCATED IN THE SW/4 NW/4 OF SECTION 7,

T29N, R10W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM THE INTERSECTION OF HIGHWAY 173 AND HIGHWAY 575, TRAVEL SOUTHEASTERLY ON HIGHWAY 575 FOR 0.75 MILES.
- 2) TURN RIGHT AND TRAVEL 1.5 MILES TO A "Y" INTERSECTION.
- 3) STAY TO THE LEFT, AND TRAVEL 0.75 MILES.
- 4) TURN RIGHT AND TRAVEL 0.2 MILES.
- 5) TURN LEFT AND FOLLOW THE MAIN ROAD, SOUTHERLY FOR 2.5 MILES.
- 6) TURN RIGHT AND TRAVEL 0.25 MILES TO THE BEGINNING OF THE FLAGGED ACCESS ON THE LEFT, BEFORE THE CHAINLINK FENCE.
- 7) FOLLOW RED FLAGGING FOR 867 FEET TO WELL FLAG.

WELL FLAG LOCATED AT LAT. 36.74321° N, LONG. 107.93016° W (NAD 83).

