

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-9720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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 August 1, 2011
Submit one copy to appropriate
District Office

JUN 28 2016

☐ AMENDED REPORT

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- V3323	² Pool Code 43329	³ Pool Name Maljamar; Grayburg, San Andres
⁴ Property Code 31422	⁵ Property Name MCA UNIT	⁶ Well Number 548
⁷ OGRID No. 217817	⁸ Operator Name ConocoPhillips Company	⁹ Elevation 4025.3

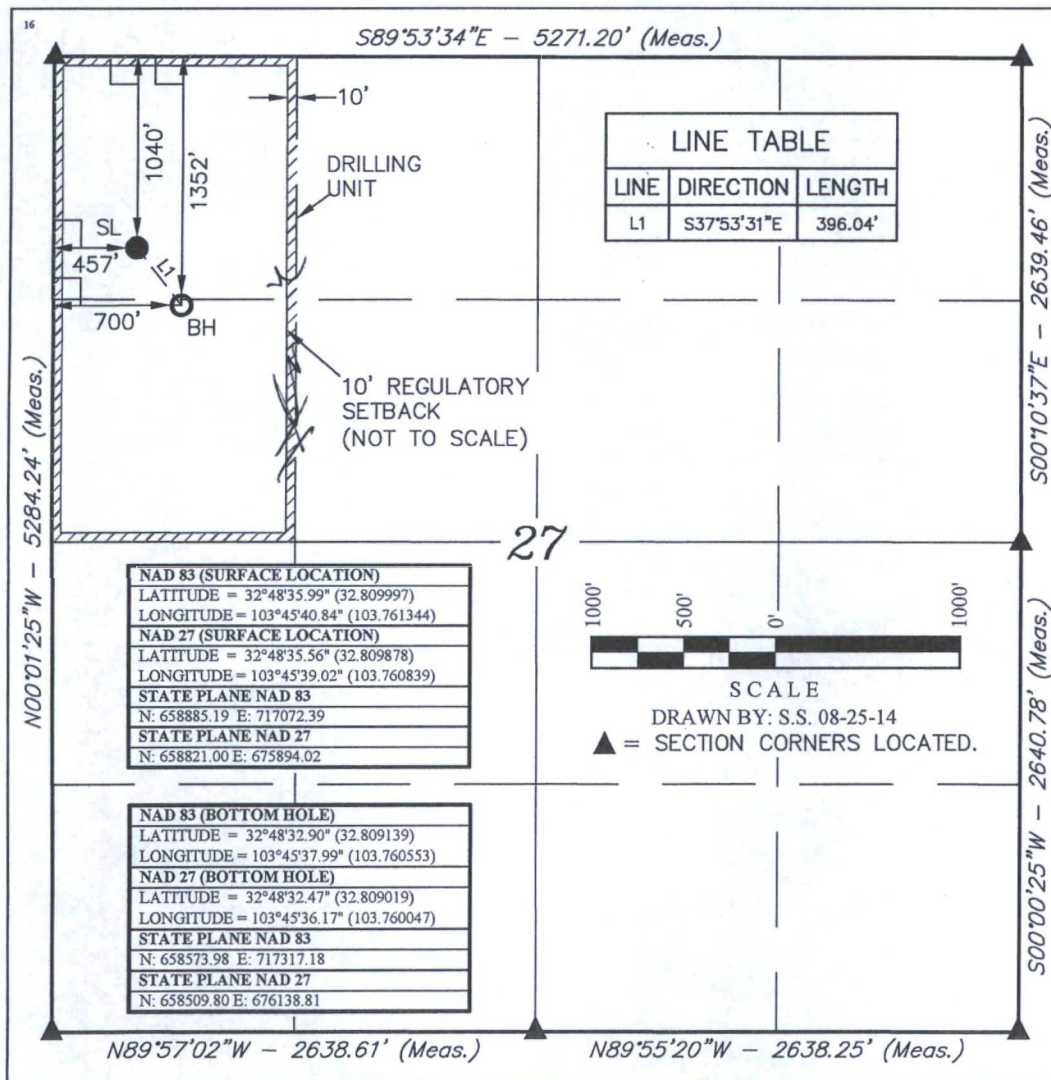
¹⁰ Surface Location

UL or lot no. D	Section 27	Township 17S	Range 32E	Lot Idn	Feet from the 1040	North/South line NORTH	Feet from the 457	East/West line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. E	Section 27	Township 17S	Range 32E	Lot Idn	Feet from the 1352	North/South line NORTH	Feet from the 700	East/West line WEST	County LEA
¹² Dedicated Acres 80	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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.

Susan B. Maunder 6/5/15
Signature Date

Susan B. Maunder
Printed Name

Susan.B.Maunder@cop.com
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

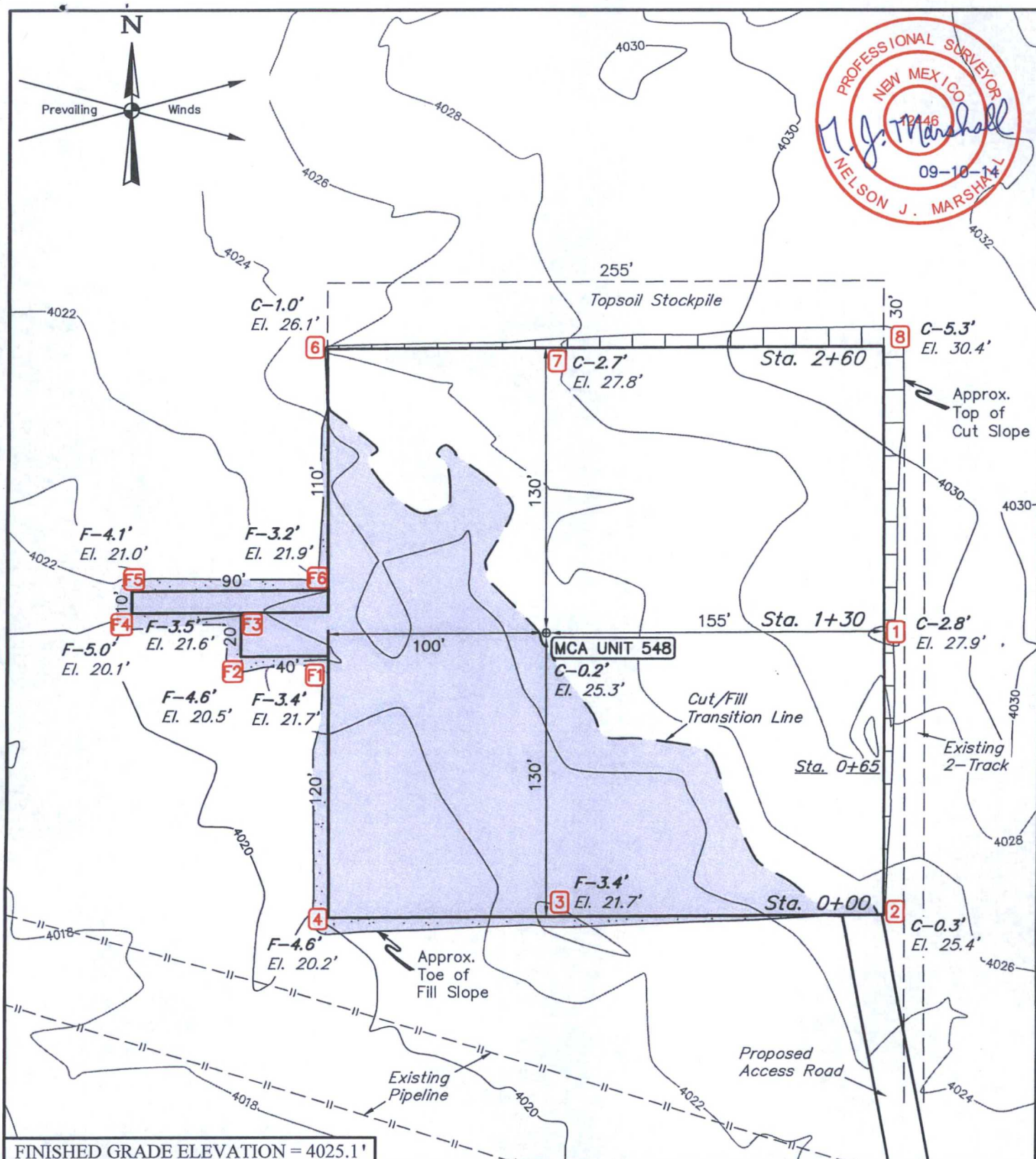
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

August 07, 2014

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number:



FINISHED GRADE ELEVATION = 4025.1'

NOTES:

- Flare pit is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.

Also note that blade and level area may not be needed depending on rig used.

ConocoPhillips Company

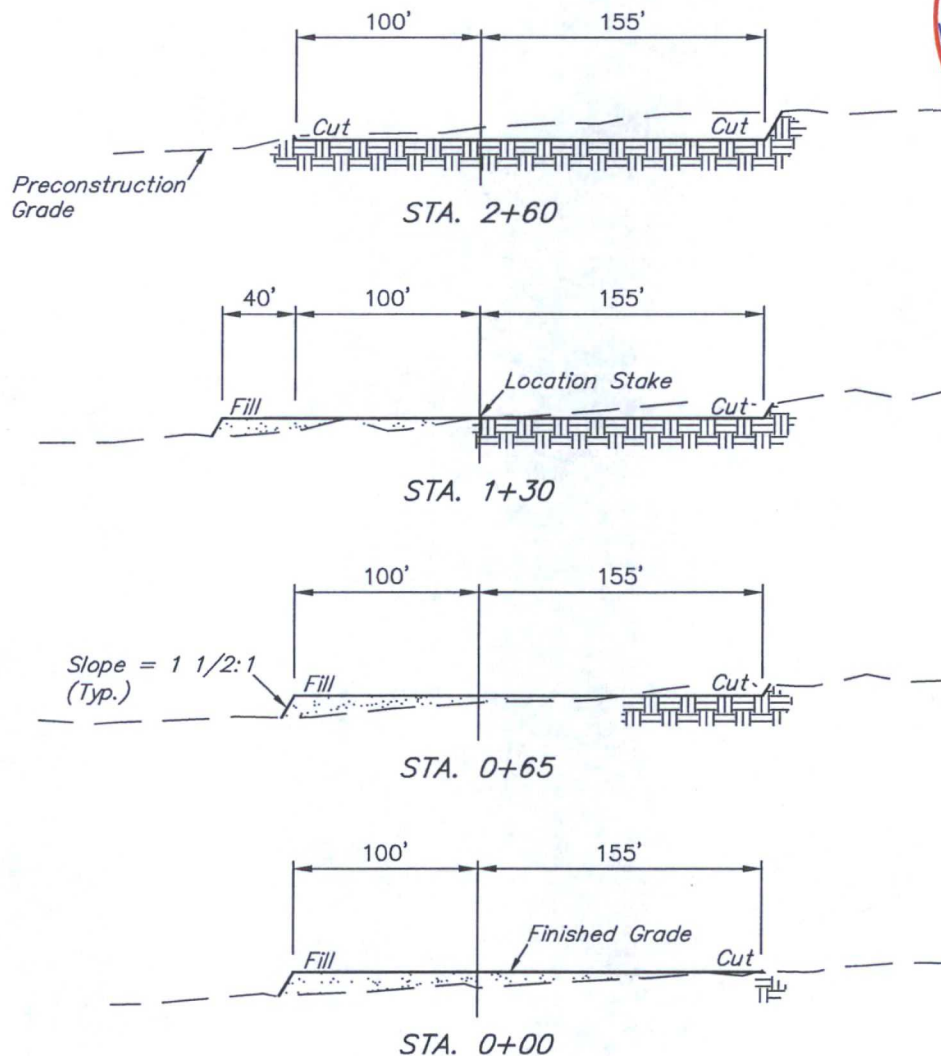
**MCA UNIT 548
SECTION 27, T17S, R32E, N.M.P.M.
1040' FNL 457' FWL**

DRAWN BY: S.S.	DATE DRAWN: 08-25-14
SCALE: 1" = 60'	REVISED: 00-00-00
LOCATION LAYOUT	FIGURE #1



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

1" = 40'
X-Section
Scale
1" = 100'



APPROXIMATE EARTHWORK QUANTITIES

(3") TOPSOIL STRIPPING	690 Cu. Yds.
REMAINING LOCATION	2,880 Cu. Yds.
TOTAL CUT	3,570 Cu. Yds.
FILL	2,880 Cu. Yds.
EXCESS MATERIAL	690 Cu. Yds.
TOPSOIL	690 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	0 Cu. Yds.

APPROXIMATE SURFACE DISTURBANCE AREAS

	DISTANCE	ACRES
WELL SITE DISTURBANCE	NA	±1.842
20' WIDE ACCESS ROAD R-O-W DISTURBANCE	±164.69'	±0.113
10' WIDE POWER LINE R-O-W DISTURBANCE	±838.20'	±0.577
TOTAL SURFACE USE AREA		±2.532

NOTES:

- Fill quantity includes 5% for compaction.
- Calculations based on 3" of topsoil stripping.
- Topsoil should not be stripped below finished grade on substructure area.

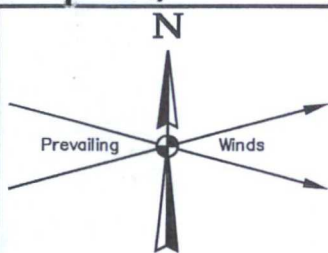
ConocoPhillips Company

MCA UNIT 548
SECTION 27, T17S, R32E, N.M.P.M.
1040' FNL 457' FWL

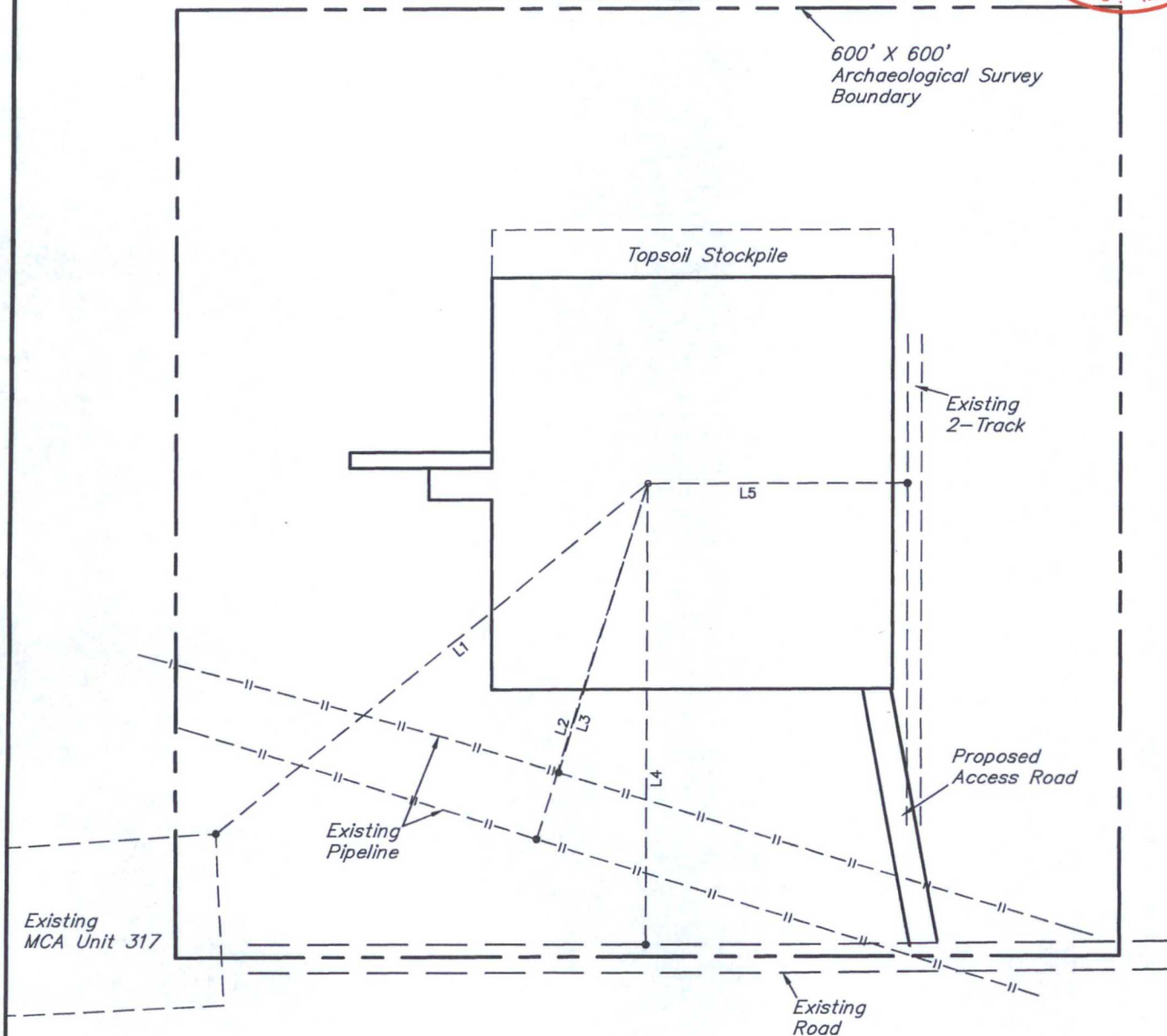


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DRAWN BY: S.S.	DATE DRAWN: 08-25-14
SCALE: AS SHOWN	REVISED: 00-00-00
TYPICAL CROSS SECTIONS	FIGURE #2



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S51°W	352'
L2	S17°W	236'
L3	S17°W	191'
L4	S00°E	292'
L5	N89°E	164'



NOTES:

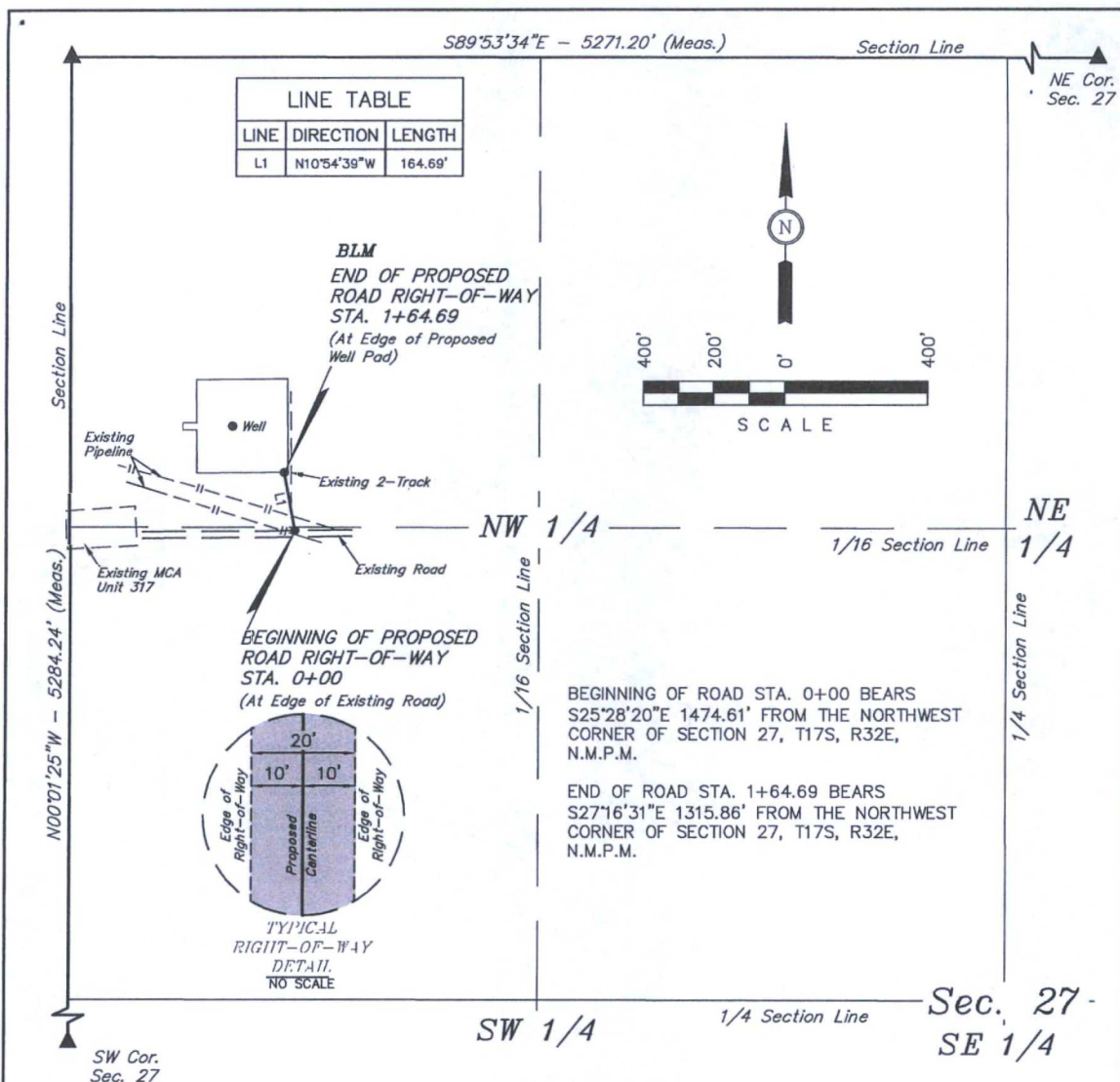
ConocoPhillips Company

**MCA UNIT 548
SECTION 27, T17S, R32E, N.M.P.M.
1040' FNL 457' FWL**

DRAWN BY: S.S.	DATE DRAWN: 08-25-14
SCALE: 1" = 100'	REVISED: 00-00-00
ARCHAEOLOGICAL SURVEY BOUNDARY	FIGURE #5



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Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



ROAD RIGHT-OF-WAY DESCRIPTION

A 20' WIDE RIGHT-OF-WAY 10' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NW 1/4 NW 1/4 OF SECTION 27, T17S, R32E, N.M.P.M., WHICH BEARS S25°28'20"E 1474.61' FROM THE NORTHWEST CORNER OF SAID SECTION 27, THENCE N10°54'39"W 164.69' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 27, WHICH BEARS S27°16'31"E 1315.86' FROM THE NORTHWEST CORNER OF SAID SECTION 27. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.076 ACRES MORE OR LESS.

RIGHT-OF-WAY LENGTHS			
DESCRIPTION	FEET	ACRES	RODS
BLM	164.69	0.076	9.98

▲ = SECTION CORNERS LOCATED.

NOTES:

- The maximum grade of existing ground for the proposed access road is ±2%.

CERTIFICATE OF PROFESSIONAL SURVEYOR
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 12446
STATE OF NEW MEXICO
09-10-14

ConocoPhillips Company

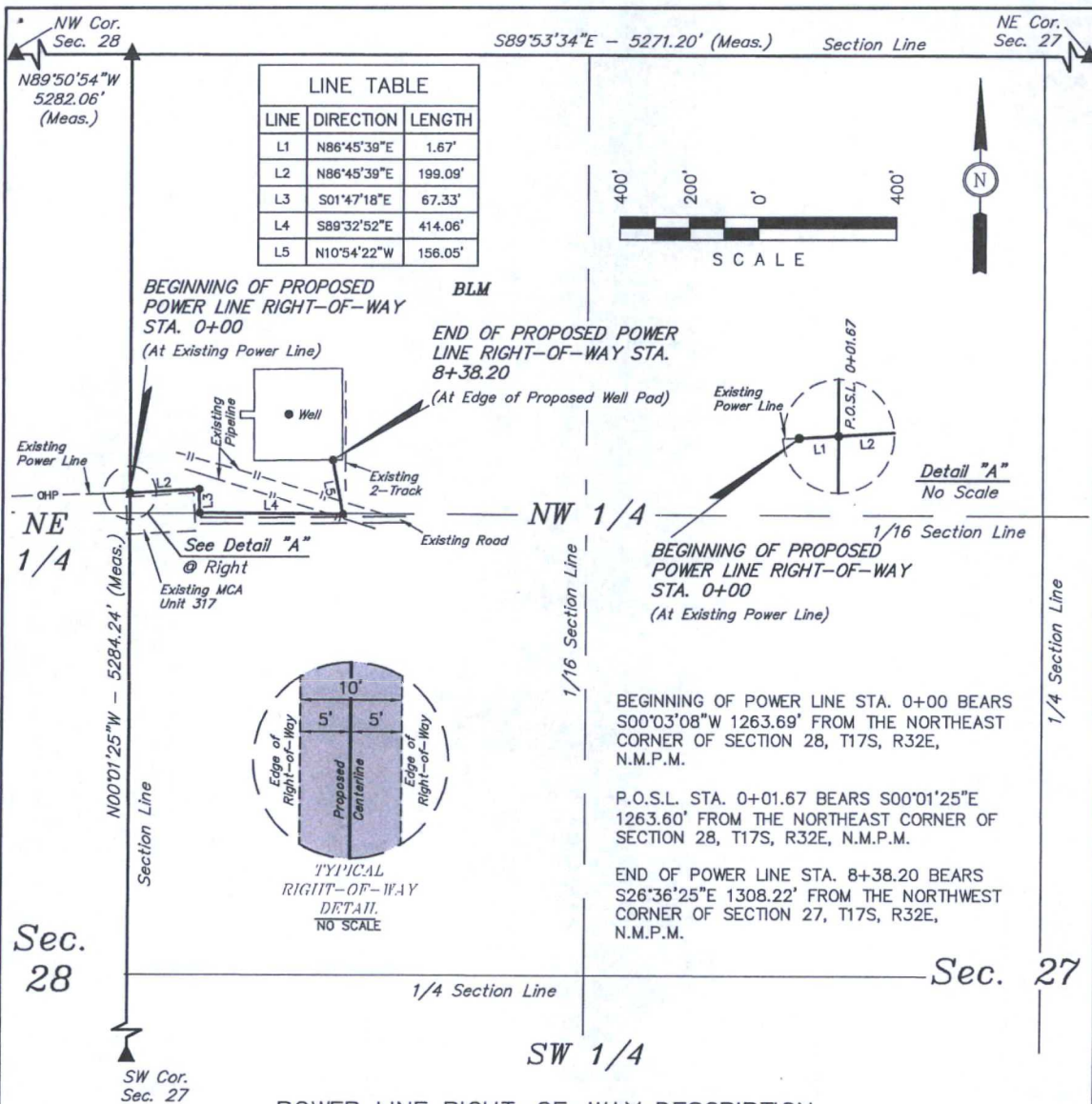
MCA UNIT 548
SECTION 7, T17S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

DRAWN BY: S.S. DATE DRAWN: 08-25-14
SCALE: 1" = 400' REVISED: 00-00-00

ACCESS ROAD R-O-W



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



A 10' WIDE RIGHT-OF-WAY 5' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NE 1/4 NE 1/4 OF SECTION 28, T17S, R32E, N.M.P.M., WHICH BEARS S00°03'08"W 1263.69' FROM THE NORTHEAST CORNER OF SAID SECTION 28, THENCE N86°45'39"E 1.67' TO A POINT ON THE EAST LINE OF THE NE 1/4 NE 1/4 OF SAID SECTION 28, WHICH BEARS S00°01'25"E 1263.60' FROM THE NORTHEAST CORNER OF SAID SECTION 28, THENCE N86°45'39"E 199.09'; THENCE S01°47'18"E 67.33'; THENCE S89°32'52"E 414.06'; THENCE N10°54'22"W 156.05' TO A POINT IN THE NW 1/4 NW 1/4 OF SECTION 27, T17S, R32E, N.M.P.M., WHICH BEARS S26°36'25"E 1308.22' FROM THE NORTHWEST CORNER OF SAID SECTION 27. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.192 ACRES MORE OR LESS.

CERTIFICATE OF PROFESSIONAL SURVEY
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 12446
STATE OF NEW MEXICO
09-10-14

ConocoPhillips Company

MCA UNIT 548
SECTION 7, T17S, R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

DRAWN BY: S.S. DATE DRAWN: 08-25-14
SCALE: 1" = 400' REVISED: 00-00-00

POWER LINE R-O-W



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 82 AND MALJAMAR ROAD/COUNTY ROAD 126, PROCEED IN A SOUTHERLY DIRECTION FROM MALJAMAR, NEW MEXICO ALONG MALJAMAR ROAD/COUNTY ROAD 126 APPROXIMATELY 3.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHWEST; FOLLOW ROAD SIGNS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 165' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM MALJAMAR, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 3.4 MILES.

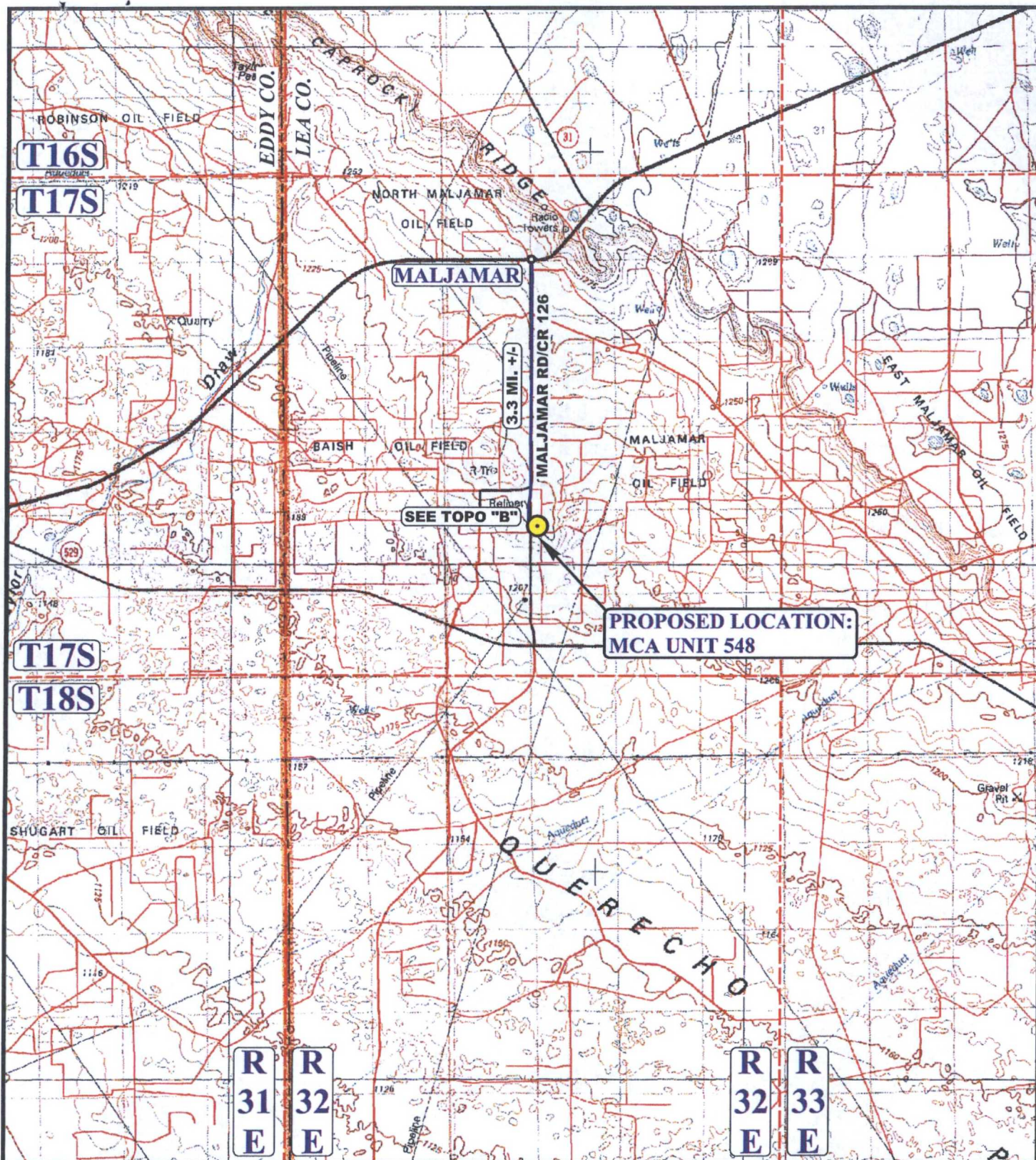
ConocoPhillips Company

**MCA UNIT 548
SECTION 27, T17S, R32E, N.M.P.M.
1039' FNL 457' FWL**



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

DRAWN BY: T.W.	DATE DRAWN: 08-29-14
	REVISED: 00-00-00
ROAD DESCRIPTION	



LEGEND:

 PROPOSED LOCATION

ConocoPhillips Company

MCA UNIT 548
SECTION 27, T17S, R32E, N.M.P.M.
1039' FNL 457' FWL

DRAWN BY: T.W.

DATE DRAWN: 08-29-14

SCALE: 1:100,000

REVISED: 00-00-00

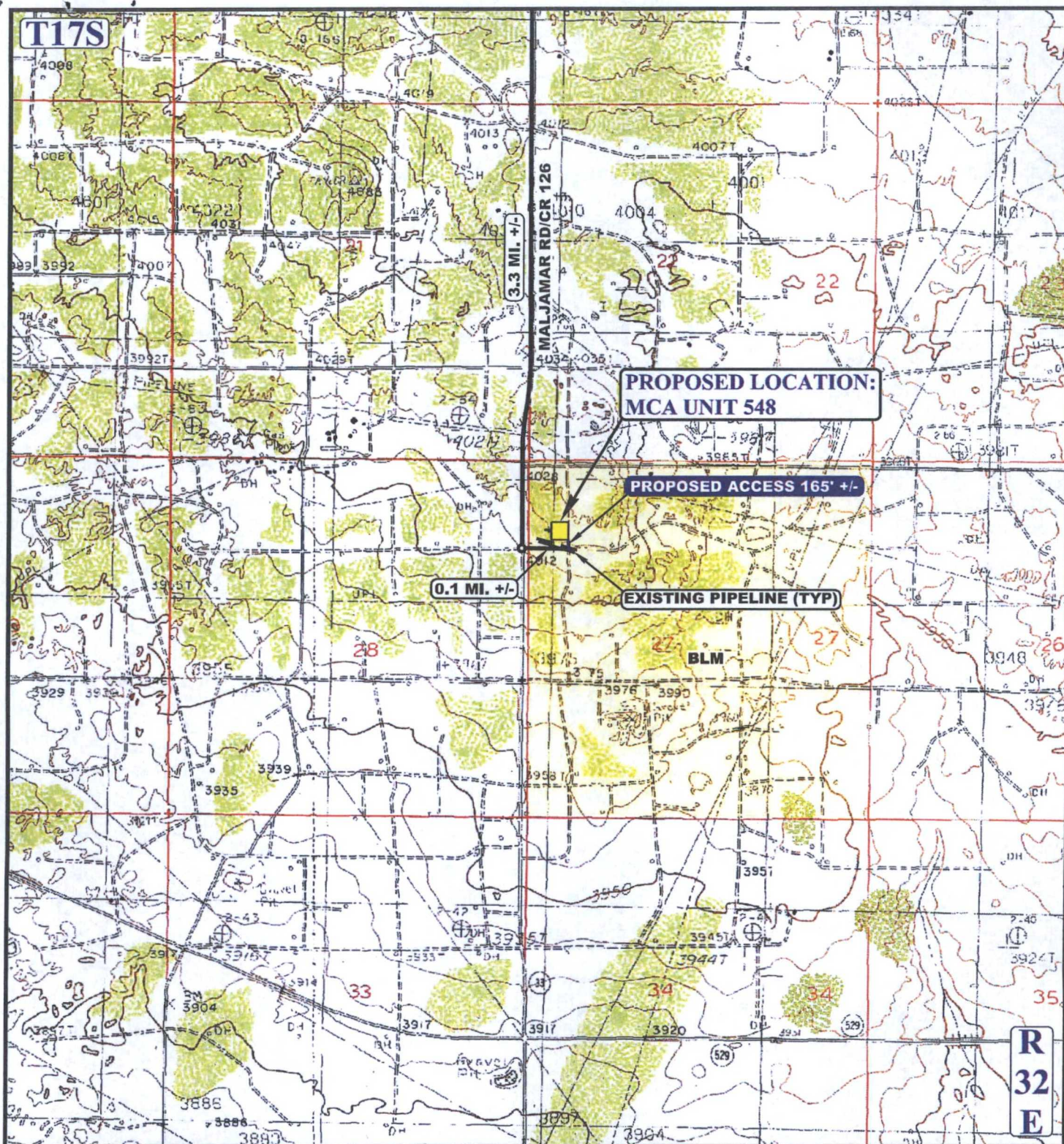
ACCESS ROAD MAP

TOPO A



UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017





NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- - - PROPOSED ROAD
- - - EXISTING PIPELINE

ConocoPhillips Company

MCA UNIT 548
SECTION 27, T17S, R32E, N.M.P.M.
1039' FNL 457' FWL

DRAWN BY: T.W.

DATE DRAWN: 08-29-14

SCALE: 1" = 2000'

REVISED: 00-00-00

ACCESS ROAD MAP

TOPO B



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



MCA 548 Injector Line
 Lat 32°48'35.98"N / Lon 103°45'40.84"W NAD83
 Sec 27 Twn 17S Rge 32E
 Lea County NIM
 Length of Inj Line 459 Ft. *about 5316'*
 Length of 4-1/2 Trunk Line 4,857 Ft

MCA 548 Injector Line

Lat 32°48'35.99"N / Lon 103°45'40.84"W NAD83
Sec 27 Twn 17S Rge 32E
Lea County NM
Length of Inj Line 459 Ft. *about 5316'*
Length of 4-1/2 Trunk Line 4,857 Ft

LEA Co. NM
SEC 27
TWN 17S
RGE 32E

Lat 32°48'35.99"N NAD83
Lon 103°45'40.84"W NAD83

Length of Injection line (Red) ~
459 FT

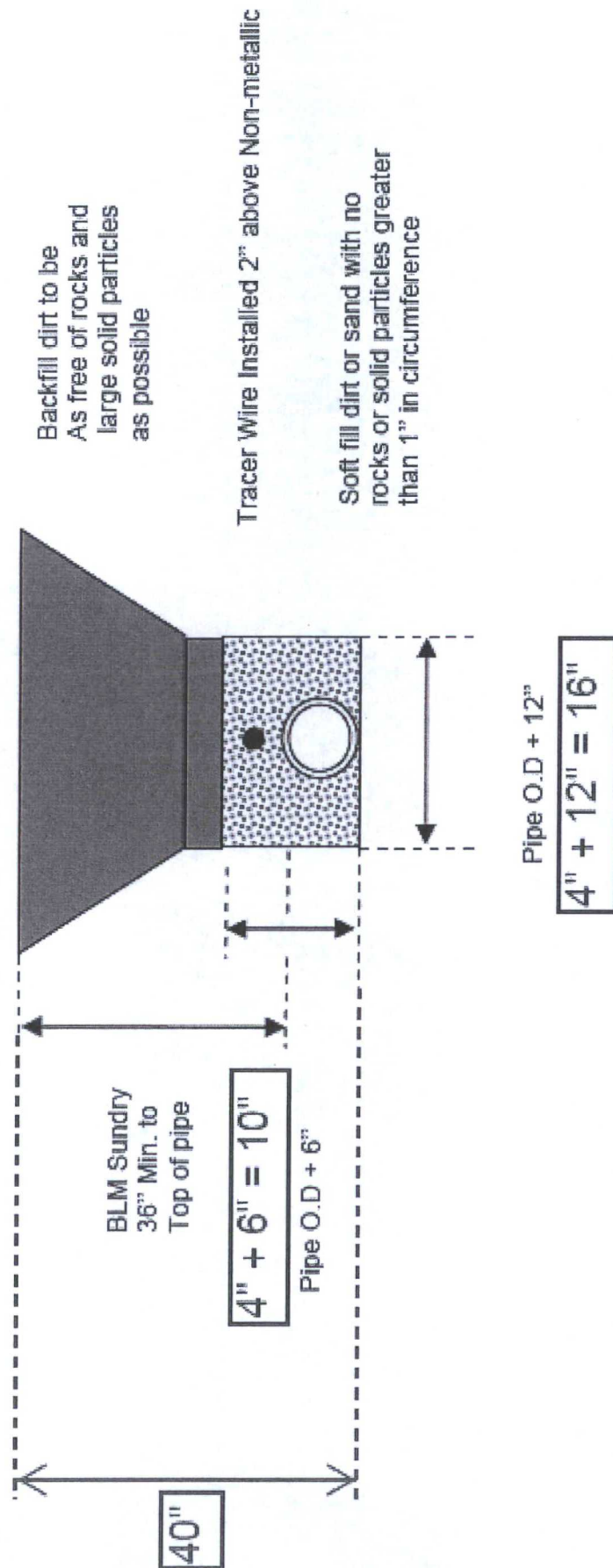
**Fiberspar Pipe 2-1/2" 2,500 Lb
Buried in trench 36" Deep**

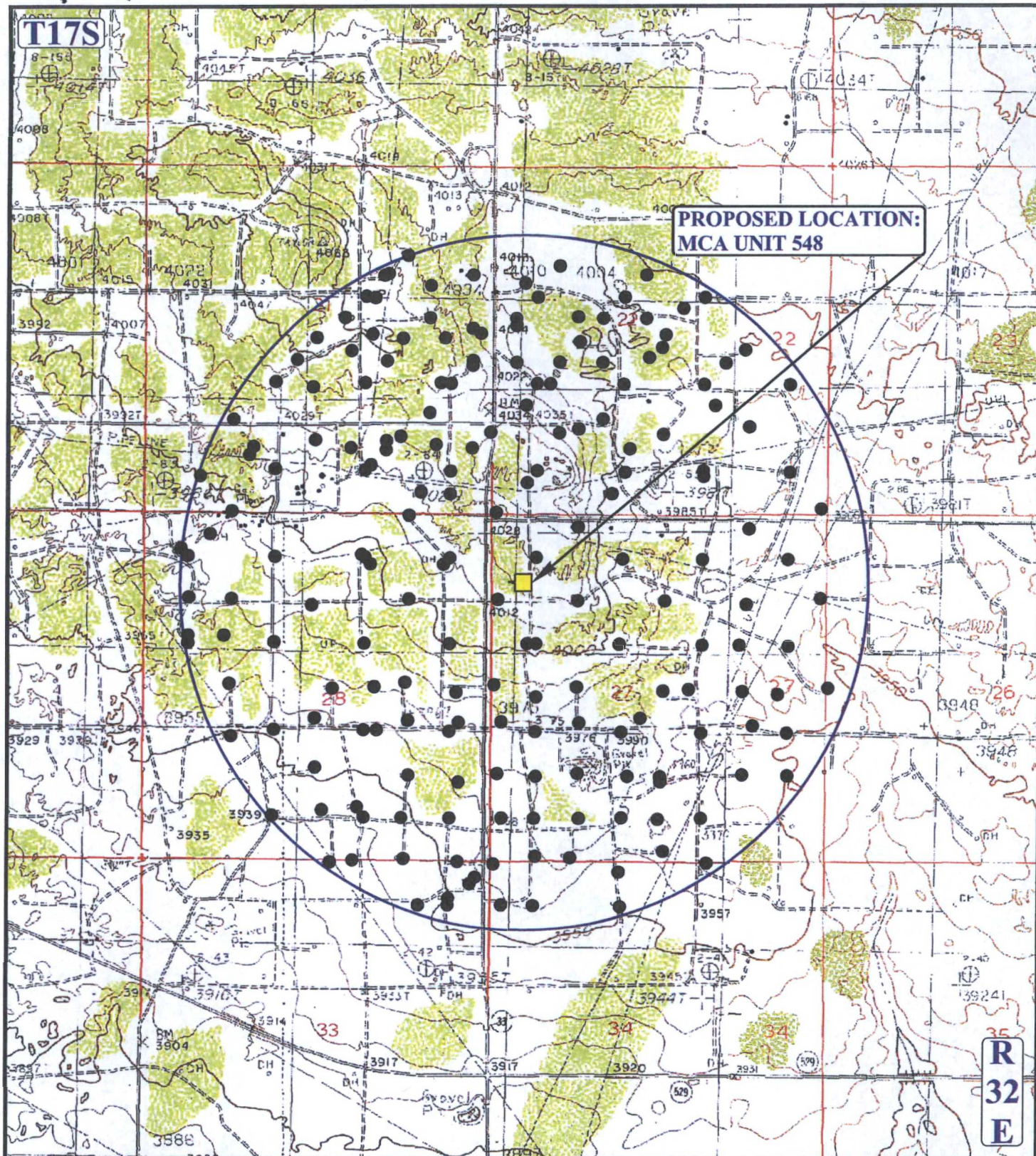
Length of 4-1/2" Trunk line
(Yellow) 4,857 FT
Fiberspar Pipe 4-1/2" 2,500
Buried in trench 36" Deep

Approximate tie in point location
at proposed Trunk line (Blue Dot)
Lat 32°48'32.59"N NAD83
Lon 103°45'39.47"W NAD83

NOTE: There is a well planned in the area of the blue circle. The Trunk line path in this area could change to avoid the well pad.

Figure D-1 Backfill around Pipe





LEGEND:

- PRODUCING WELLS



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ConocoPhillips Company

MCA UNIT 548
SECTION 27, T17S, R32E, N.M.P.M.
1039' FNL 457' FWL



DRAWN BY: T.W.

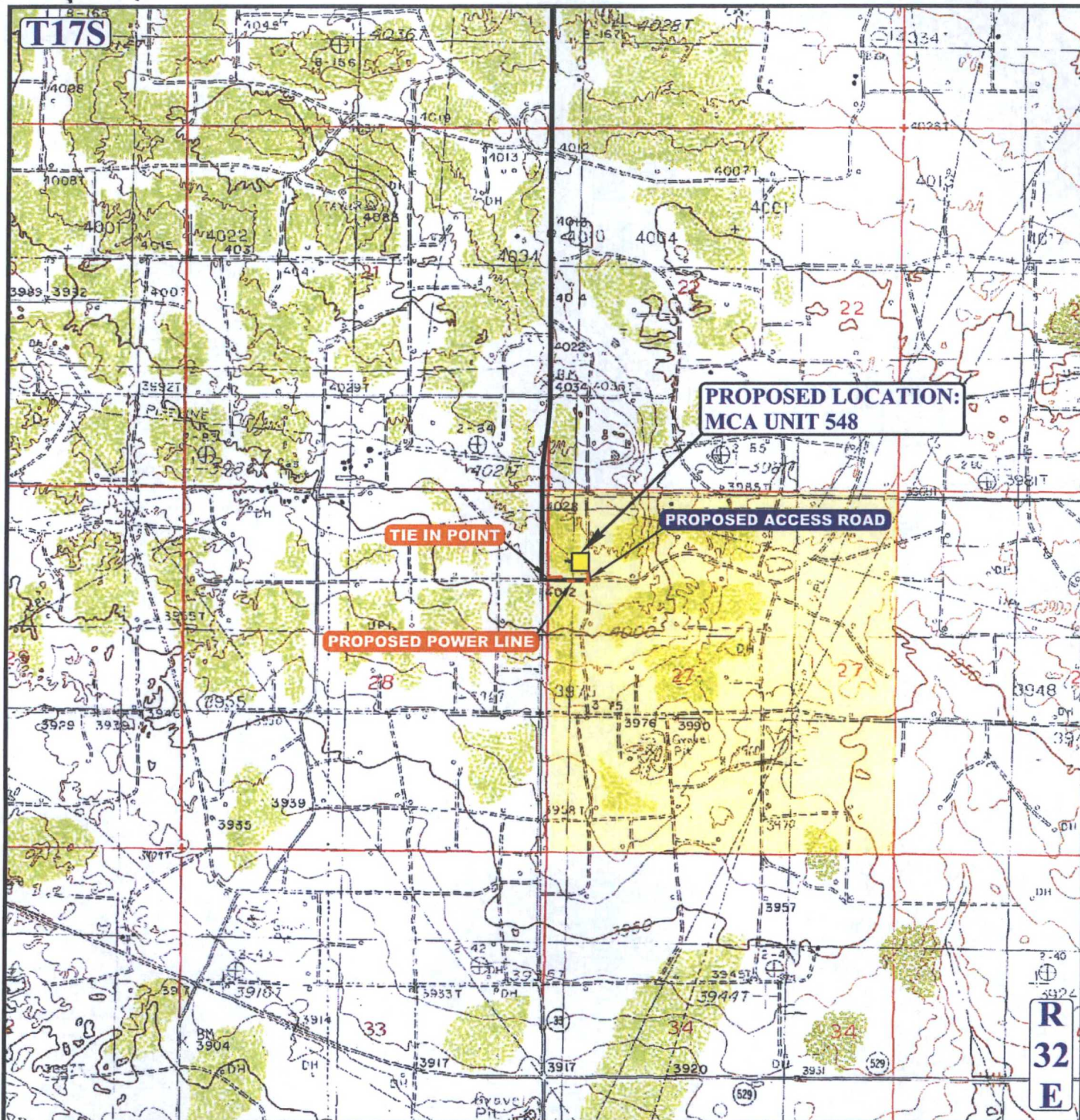
DATE DRAWN: 08-29-14

SCALE: 1" = 2000'

REVISED: 00-00-00

WELL PROXIMITY MAP

TOPO C



APPROXIMATE TOTAL POWER LINE DISTANCE = 838' +/-

NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- PROPOSED POWER LINE

ConocoPhillips Company

**MCA UNIT 548
SECTION 27, T17S, R32E, N.M.P.M.
1039' FNL 457' FWL**

DRAWN BY: T.W.

DATE DRAWN: 08-29-14

SCALE: 1" = 2000'

REVISED: 00-00-00

POWER LINE MAP

TOPO E



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



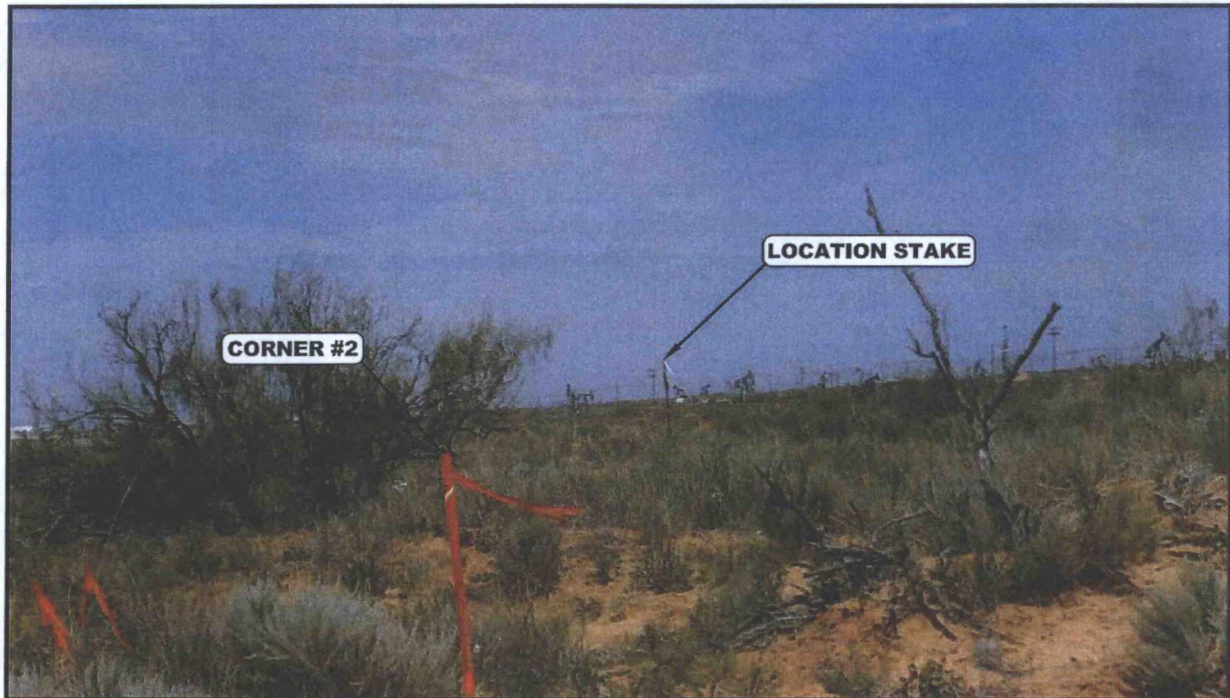


PHOTO: VIEW FROM CORNER #2 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHERLY

ConocoPhillips Company

MCA UNIT 548
SECTION 27, T17S, R32E, N.M.P.M.
1039' FNL 457' FWL



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

DRAWN BY: T.W.	DATE DRAWN: 08-29-14
TAKEN BY: J.V.	REVISED: 00-00-00

LOCATION PHOTOS

PHOTO

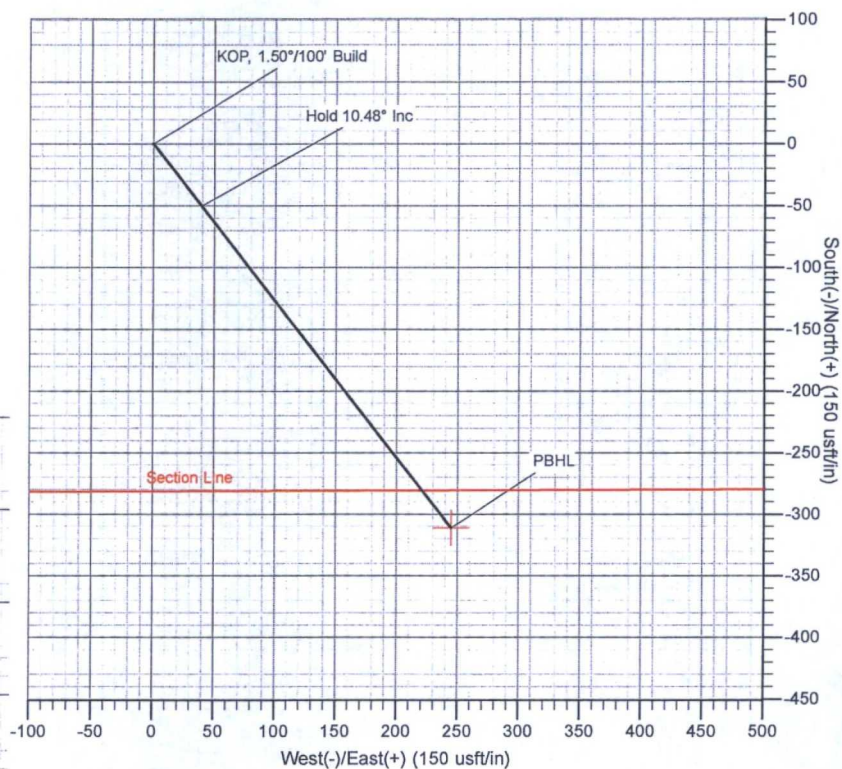
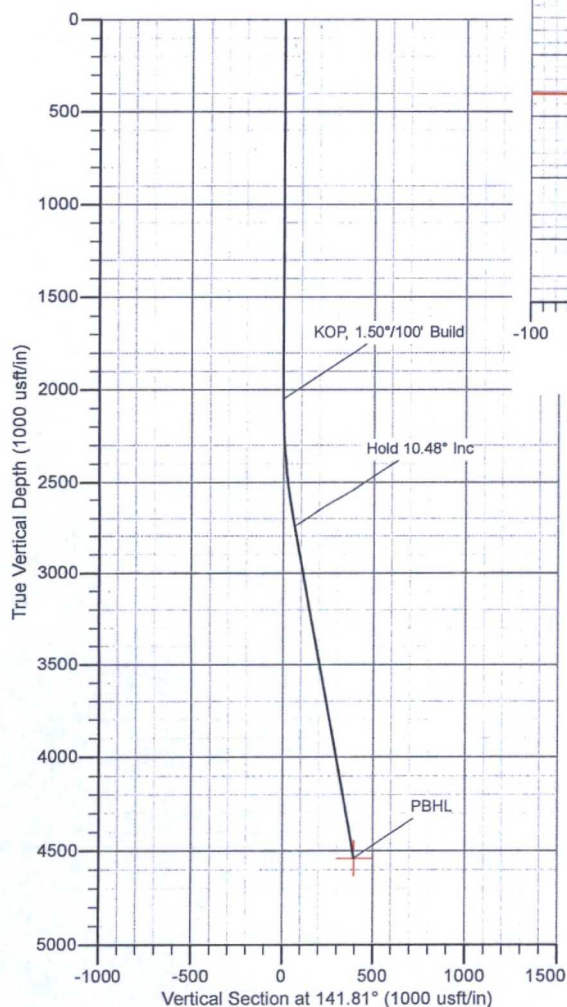


Company: ConocoPhillips
Site: MCA Unit
Well: 548
Project: Lea County, New Mexico (NAD 27)
Rig Name: Precision 194



ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
2049.30	0.00	0.00	2049.30	0.00	0.00	0.00	0.00	KOP, 1.50"/100' Build
2748.26	10.48	141.81	2744.37	-50.12	39.43	63.77	63.77	Hold 10.48° Inc
4573.67	10.48	141.81	4539.30	-311.20	244.79	395.94	395.94	PBHL



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by MS Energy are at the sole risk and responsibility of the customer. MS Energy is not responsible for the accuracy of this schematic or the information contained herein.



ConocoPhillips

Lea County, New Mexico (NAD 27)

MCA Unit

548

Wellbore #1

Plan: Design #2

Standard Planning Report

14 May, 2015

Database:	EDM 5000.1 Conroe DB	Local Co-ordinate Reference:	Well 548
Company:	ConocoPhillips	TVD Reference:	WELL @ 4039.30usft (Precision 194)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 4039.30usft (Precision 194)
Site:	MCA Unit	North Reference:	Grid
Well:	548	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Project	Lea County, New Mexico (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Well	548			
Well Position	+N/-S	658,821.00 usft	Northing:	658,821.00 usft
	+E/-W	675,894.02 usft	Easting:	675,894.02 usft
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft
			Latitude:	32° 48' 35.562 N
			Longitude:	103° 45' 39.018 W
			Ground Level:	4,025.30 usft

Wellbore	Wellbore #1			
----------	-------------	--	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2015	05/12/15	7.38	60.65	48,558

Design	Design #2			
--------	-----------	--	--	--

Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	141.81

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,049.30	0.00	0.00	2,049.30	0.00	0.00	0.00	0.00	0.00	0.00	
2,748.26	10.48	141.81	2,744.37	-50.12	39.43	1.50	1.50	20.29	141.81	
4,573.67	10.48	141.81	4,539.30	-311.20	244.79	0.00	0.00	0.00	0.00	0.00 PBHL v2 - MCA Un

Database:	EDM 5000.1 Conroe DB	Local Co-ordinate Reference:	Well 548
Company:	ConocoPhillips	TVD Reference:	WELL @ 4039.30usft (Precision 194)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 4039.30usft (Precision 194)
Site:	MCA Unit	North Reference:	Grid
Well:	548	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,049.30	0.00	0.00	2,049.30	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 1.50°/100' Build									
2,100.00	0.76	141.81	2,100.00	-0.26	0.21	0.34	1.50	1.50	0.00
2,200.00	2.26	141.81	2,199.96	-2.34	1.84	2.97	1.50	1.50	0.00
2,300.00	3.76	141.81	2,299.82	-6.46	5.08	8.22	1.50	1.50	0.00
2,400.00	5.26	141.81	2,399.51	-12.64	9.95	16.09	1.50	1.50	0.00
2,500.00	6.76	141.81	2,498.95	-20.87	16.42	26.56	1.50	1.50	0.00
2,600.00	8.26	141.81	2,598.09	-31.15	24.50	39.63	1.50	1.50	0.00
2,700.00	9.76	141.81	2,696.86	-43.46	34.18	55.29	1.50	1.50	0.00
2,748.26	10.48	141.81	2,744.37	-50.12	39.43	63.77	1.50	1.50	0.00
Hold 10.48° Inc									
2,800.00	10.48	141.81	2,795.24	-57.52	45.25	73.19	0.00	0.00	0.00
2,900.00	10.48	141.81	2,893.57	-71.83	56.50	91.38	0.00	0.00	0.00
3,000.00	10.48	141.81	2,991.90	-86.13	67.75	109.58	0.00	0.00	0.00
3,100.00	10.48	141.81	3,090.23	-100.43	79.00	127.78	0.00	0.00	0.00
3,200.00	10.48	141.81	3,188.56	-114.73	90.25	145.97	0.00	0.00	0.00
3,300.00	10.48	141.81	3,286.89	-129.04	101.50	164.17	0.00	0.00	0.00
3,400.00	10.48	141.81	3,385.22	-143.34	112.75	182.37	0.00	0.00	0.00
3,500.00	10.48	141.81	3,483.56	-157.64	124.00	200.56	0.00	0.00	0.00
3,600.00	10.48	141.81	3,581.89	-171.94	135.25	218.76	0.00	0.00	0.00
3,700.00	10.48	141.81	3,680.22	-186.24	146.50	236.96	0.00	0.00	0.00
3,800.00	10.48	141.81	3,778.55	-200.55	157.75	255.16	0.00	0.00	0.00
3,900.00	10.48	141.81	3,876.88	-214.85	169.00	273.35	0.00	0.00	0.00
4,000.00	10.48	141.81	3,975.21	-229.15	180.25	291.55	0.00	0.00	0.00
4,100.00	10.48	141.81	4,073.54	-243.45	191.50	309.75	0.00	0.00	0.00
4,200.00	10.48	141.81	4,171.87	-257.76	202.75	327.94	0.00	0.00	0.00
4,300.00	10.48	141.81	4,270.20	-272.06	214.00	346.14	0.00	0.00	0.00
4,400.00	10.48	141.81	4,368.53	-286.36	225.25	364.34	0.00	0.00	0.00
4,500.00	10.48	141.81	4,466.86	-300.66	236.50	382.53	0.00	0.00	0.00
4,573.67	10.48	141.81	4,539.30	-311.20	244.79	395.94	0.00	0.00	0.00
PBHL - 5 1/2"									

Database:	EDM 5000.1 Conroe DB	Local Co-ordinate Reference:	Well 548
Company:	ConocoPhillips	TVD Reference:	WELL @ 4039.30usft (Precision 194)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 4039.30usft (Precision 194)
Site:	MCA Unit	North Reference:	Grid
Well:	548	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
PBHL v2 - MCA Unit	0.00	0.00	4,539.30	-311.20	244.79	658,509.80	676,138.81	32° 48' 32.470 N	103° 45' 36.170 W
- plan hits target center									
- Point									

Casing Points

Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(usft)	(usft)		(")	(")
4,573.67	4,539.30	5 1/2"	5-1/2	6

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
2,049.30	2,049.30	0.00	0.00	KOP, 1.50°/100' Build
2,748.26	2,744.37	-50.12	39.43	Hold 10.48° Inc
4,573.67	4,539.30	-311.20	244.79	PBHL