

Operator Copy

Form 3160-3
(March 2012)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. SHL: E009200000 BHL: NMLC068282B	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A	
2. Name of Operator ConocoPhillips Company		7. If Unit or CA Agreement, Name and No.	
3a. Address P.O. Box 51810 Midland, TX 79710		8. Lease Name and Well No. Golden Spur 36 COM W1 1H	
3b. Phone No. (include area code) (432)688-6938		9. API Well No. 30-015-43374	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 282' FSL & 570' FEL 36-26S-31E At proposed prod. zone 50' FNL & 710' FEL 25-26S-31E		10. Field and Pool, or Exploratory	
14. Distance in miles and direction from nearest town or post office* 46.1 miles SW of Jal, NM		11. Sec., T. R. M. or Blk. and Survey or Area Lot 1, 36-26S-31E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit lno, if any) SHL: 282' BHL: 50'	16. No. of acres in lease E00920000: 262.96 acres NMLC068282B: 900.8 acres	17. Spacing Unit dedicated to this well 225.32	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. SHL: 33' (Golden Spur 36 COM W1 2H)	19. Proposed Depth MD: 18,830' TVD: 11,610'	20. BLM/BIA Bond No. on file ES0085	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3146.1' GL	22. Approximate date work will start* 12/01/2015	23. Estimated duration 30 days	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature <i>Ashley Bergen</i>	Name (Printed/Typed) Ashley Bergen	Date 6/29/15
Title Regulatory Specialist		
Approved by (Signature) <i>Joseph J. Potts</i>	Name (Printed/Typed)	Date 9/3/15
Title FIELD MANAGER		

Application approval does not warrant or certify that the applicant holds legal or equitable title to these rights in the subject lands which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1701-1702
States any false information

any person knowingly and willfully to make to any department or agency of the United States within its jurisdiction.

*(Instructions on page 2)

"As Drilled" C102 submitted with completion packet should provide footages from the section lines of the producing area

Received via Email
9/6/2015

Carlsbad Controlled Water Basin

Accepted for record
NMCCDAPPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHEDSEE ATTACHED FOR
CONDITIONS OF APPROVAL

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 APT Number 30-015-43374	2 Pool Code 98012	3 Pool Name WC-015 608-5263125P; WolfCamp
4 Property Code 315259	5 Property Name GOLDEN SPUR 36 COM W1	6 Well Number 1H
7 OGRID No. 217817	8 Operator Name ConocoPhillips Company	9 Elevation 3146.1

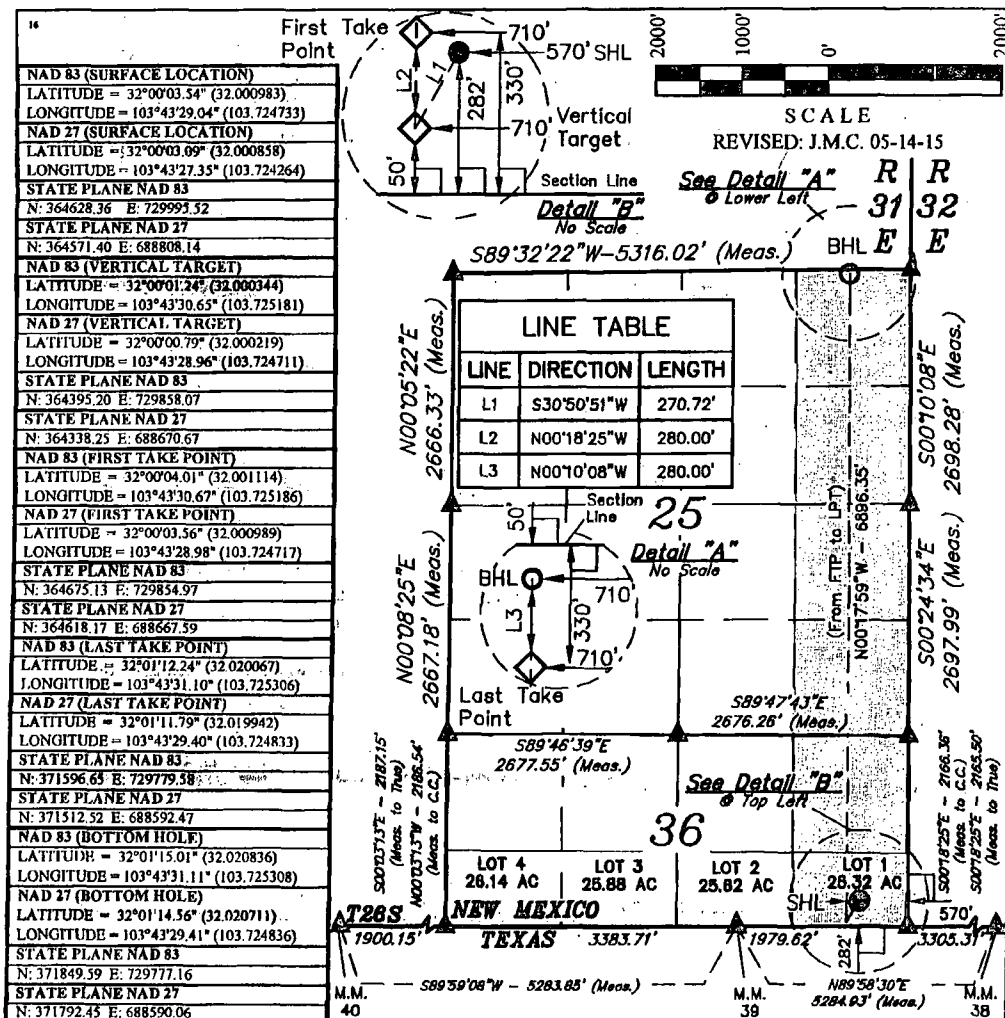
10 Surface Location

UL or lot no. LOT 1	Section 36	Township 26S	Range 31E	Lot Idn	Feet from the 282	North/South line SOUTH	Feet from the 570	East/West line EAST	County EDDY
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11 Bottom Hole Location If Different From Surface

UL or lot no. A	Section 25	Township 26S	Range 31E	Lot Idn	Feet from the 50	North/South line NORTH	Feet from the 710	East/West line EAST	County EDDY
12 Dedicated Acres 225.32	13 Joint or Infill	14 Consolidation Code C	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 leased 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: Ashley Bergen Date: 11/10/14

Printed Name: Ashley Bergen

E-mail Address: ashley.bergen@cop.com

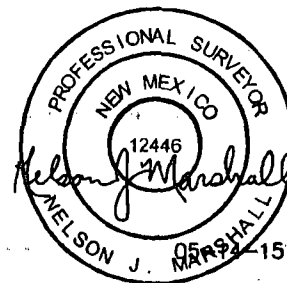
18 SURVEYOR CERTIFICATION

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.

November 10, 2014

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number:

ConocoPhillips, Golden Spur 36 COM W1 1H

1. Geologic Formations

TVD of target	11,610	Pilot hole depth	N/A
MD at TD:	18,830	Deepest expected fresh water:	300

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Base of Fresh Water	300	Water	
Rustler	920	Water	
Top of Salt / Salado	1,355	Salt	
Castile	2,300	Salt	
Delaware Top / Base Salt	4,165	Oil/Gas	Loss of Circulation
Ford Shale	4,235	Oil/Gas	
Cherry Canyon	5,110	Oil/Gas	Loss of Circulation
Brushy Canyon	6,485	Oil/Gas	Loss of Circulation
Bone Springs	9,150	Oil/Gas	Loss of Circulation
Bone Springs 3 rd Carb	10,220	Oil/Gas	
WolfCamp	11,330	Oil/Gas	
WolfCamp 1	11,530	Target Zone	

*H2S, water flows, loss of circulation, abnormal pressures, etc.

ConocoPhillips, Golden Spur 36 COM W1 1H

2. Casing Program – Option Not to Run 9-5/8"

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Dry Tension
	From	To							
17.50"	0	990	13.375"	54.5	J55	BTC	2.36	5.70	15.8
12.25" x 9.875"	0	4,165 x 11,873	7.625"	29.7	P110	BTC	**1.7 COP Collapse Design S.F.	1.46	2.72
6.75"	0	18,830 (11610 TVD)	5.0"	18	P110	TXP/BTC	1.59	1.65	2.78
BLM Minimum Safety Factor							1.125	1.00	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

9-5/8" Contingency Option

ConocoPhillips Company respectfully requests the option to not run 9-5/8" 40# L-80 BTC Casing and spare it as a contingency if the next hole section failed to support the hydrostatic column of the previous mud weight. The intent for the casing and cementing program:

- Drill the 12-1/4" to the Base of the Salt and 9-7/8" hole from Base of Salt to Wolfcamp 1 with the same density mud (OBM or Saturated Brine).
- Case and cement the well with 13-3/8" surface, 7-5/8" intermediate and 5" production casing (3-strings).
- Isolate the Salt & Delaware utilizing Annulus Casing Packer and Stage Tool if necessary.
- Bring cement from 7-5/8" casing shoe to surface.
- Provided that if the hole can no longer support the hydrostatic column of the previous mud weight, a contingency plan to run the 9-5/8" casing for cementing with severe losses if necessary.

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
12.25"	0	4,165	9.625"	40.0	L80	BTC	2.53	1.36	5.50
8.75"	0	11,873	7.625"	29.7	P110	TenW523	**1.7 COP Collapse Design S.F.	1.46	2.72

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y

ConocoPhillips, Golden Spur 36 COM W1 1H

Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	300	13.7	1.63	8.50	7	Lead: Class C + 1.5% Bentonite + 1.0% CaCl ₂ + 0.2% Anti-Foam + 0.2% Dispersant.
	400	14.8	1.33	6.34	7	Tail: Class C + 0.2% Anti-Foam + 0.1% Dispersant.
Contingency Inter. 1	2000	11.5	2.74	15.25	15	Lead: Class C + 10.0% Bentonite + 0.2% Anti-Foam + 5lb/sk LCM + 0.25% Dispersant + 0.25% Retarder.
	350	13.5	1.35	6.34	5	Tail: Class C + 0.2% Anti-Foam + 0.25% Retarder + 0.5% Extender.
DV/ECP Tool: NO						
9-5/8" Casing will be set aside as contingency string for cementing with severe losses if necessary.						
Inter. 2	900	11.5	2.57	14.21	7	Lead: Class C + 10.0 lb/sk Extender + 0.25% Anti-Foam + 0.5% Retarder + 0.3% Fluid Loss + 1% Dispersant + 5 lbs/sk LCM + 4% Expanding Agent.
	140	13.5	1.49	6.76	7	Tail: Class C + 0.9% Gas Control + 9.0% Extender + 0.4% Dispersant + 0.5% Retarder + 0.2% Anti-Foam + 0.25 lb/sk Lost Circ Control + 5 lbs/sk LCM + 3.0% Expanding Agent
	DV/ECP Tool ~4,500' (OPTIONAL)					
Prod.	400	11.5	2.57	15.25	15	Lead: Class C + 10.0% Bentonite + 0.2% Anti-Foam + 5lb/sk LCM + 0.25% Dispersant + 0.25% Retarder.
	800	16.4	1.10	4.28	5	Tail: Class H + 1.800 gal/sk Gas Control Agent + 0.025 gal/sk Dispersant + 0.080 gal/sk Retarder + 0.030 gal/sk Anti-Foam.
DV/ECP Tool NO						

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

ConocoPhillips, Golden Spur 36 COM W1 1H

Casing String	TOC	% Excess
Surface	0'	100%
Contingency Intermediate 1	0'	100% - 130%
Intermediate 2	0'	50%
Production	11,373'	30% - 35%

Include Pilot Hole Cementing specs: NO PILOT HOLE.

Pilot hole depth N/A

KOP

Plug top	Plug Bottom	% Excess	No. Sacks	Wt. lb/gal	Yld. ft ³ /sack	Water gal/sk	Slurry Description and Cement Type

4. Pressure Control Equipment

	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4" x 9-7/8"	13-5/8"	5M	Annular	x	50% of working pressure
			Blind Ram	x	5M
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	Annular	x	50% testing pressure
			Blind Ram	x	10M
			Pipe Ram	x	
			Double Ram	x	
			Other*		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

ConocoPhillips, Golden Spur 36 COM W1 1H

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.	
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
N	Are anchors required by manufacturer?	
Y	<p>A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.</p> <ul style="list-style-type: none"> • Provide description here <p>See attached schematic.</p>	

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	990	Spud Mud	8.6-9.3	32-36	N/C
990	4,165	Brine or OBM	8.9-10.5	28-40	≤5
4,165	11,873	Brine or OBM	8.9-10.5	28-40	≤5
11,873	18,830	Oil Base Mud	12.0-14.0	30-40	≤5

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing	
X	GR from 200' above KOP to TD (GR as part of the BHA while drilling). Not log in the lateral.
X	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain
X	Dry samples taken 30' from intermediate 1 casing point to TD. GC Tracers KOP to TD.

Additional logs planned	Interval
	Resistivity
	Density
	CBL
X	Mud log
	PEX

ConocoPhillips, Golden Spur 36 COM W1 1H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	~6,600 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Use of 20 ppb – 25 ppb Wellbore Strengthening material (Walnut Fine) in 8.9 ppg to 10.5 ppg OBM or Saturated Brine with Axiom 3-deck shakers for recycling to increase the formation breakdown pressure above what would have with clear saturated 10 ppg brine.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

X	H ₂ S is present
X	H ₂ S Plan attached

8. Other facets of operation

Is this a walking operation? If yes, describe. Yes, please see below.

Will be pre-setting casing? If yes, describe. Yes, please see below.

Spudder Rig and Skid Operations: Depending on rig availability, ConocoPhillips may pre-set the surface casing. The reasons for using the spudder rig to drill and pre-set surface casing are: Time & Cost Saving.

The "Pinnergy #1" Rig will be used to drill the surface hole and pre-set surface casing on all of the wells in the same pad. Once each surface hole section has been drilled, it will be cased and cemented according to all applicable rules and regulations (Onshore Orders). The wellhead will be nipped up and tested as soon as 13-3/8" surface casing is cut off after the applicable WOC time has been reached. A blind flange of the same pressure rating as the wellhead will be utilized to seal the wellbore on all casing strings. Pressure will be monitored via wing valves on each wellhead section and a means for intervention will be maintained while the drilling rig is not over the well. Spudder rig operation is expected to take 7-10 days for a quad pad and 4-6 days for a dual pad. The BLM will be contacted / notified 24 hours prior to commencing spudder rig operations.

Drilling operation will start with a big Drilling Rig (H&P Flex 3 rig type) and an approved BOP stack will be nipped up and tested on the wellhead before drilling operations resumes on each well. The rig will skid between the wells until each well's section has been drilled as planned (see Attachment #10). The BLM will be contacted / notified 24 hours before the big rig moves back on the location.

Once "Spudder Rig" has left the location, The "big Drilling Rig" will be on location within 90 days to drill each well in the Pad as batch drilling operations.

ConocoPhillips, Golden Spur 36 COM W1 1H

Attachments:

- Attachment#1: Directional Plan.
- Attachment#2: Casing & Cement Wellbore Schematic
- Attachment#3: Wellhead Schematics
- Attachment #4: Choke & BOPE Schematics.
- Attachment #5: Special (Premium) Connections
- Attachment #6: Flex Hose Documentation.
- Attachment #7: Spudder Rig Layout



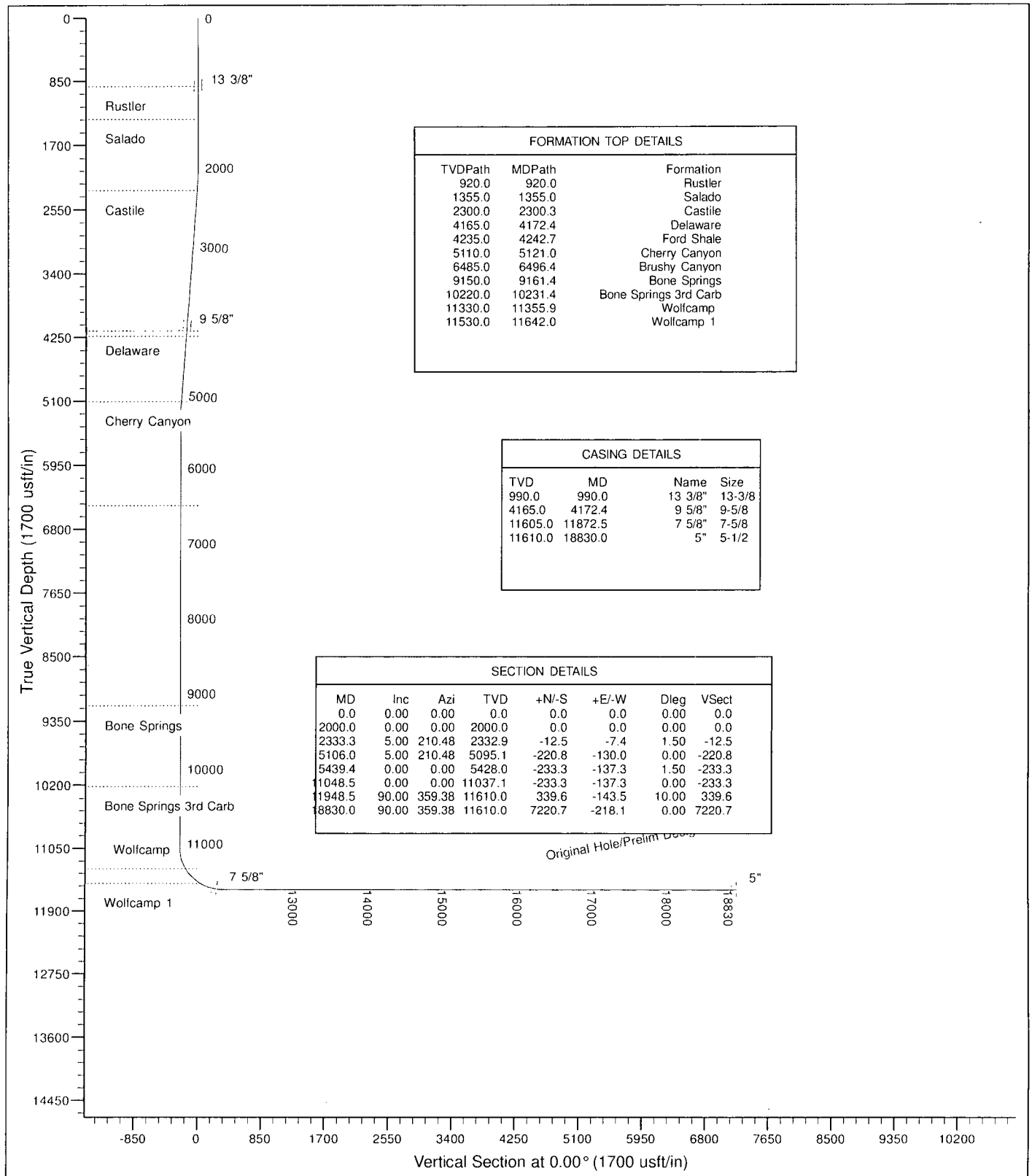
ConocoPhillips MCBU
Permian Delaware Hz New Mexico
GOLDEN SPUR 36 COM W1 1H - PS
Golden Spur 36 COM W1 1H

Original Hole
Plan: Prelim Design 1 (Golden Spur 36 COM W1 1H/Original Hole)
WELL @ 3171.0usft (Original Well Elev)
US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Mexico East 3001



Azimuth to Grid North
True North = 0.36°
Magnetic North = 7.01°

Magnetic Field
Strength: 48016.6aT
Dir Azim: 55.85°
Dip: 51.0135°
Model: IGRF2014



ConocoPhillips MCBU

Permian Delaware Hz New Mexico
GOLDEN SPUR 36 COM W1 1H - PS
Golden Spur 36 COM W1 1H

Original Hole

Plan: Prelim Design 1

Standard Planning Report

14 May, 2015

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site GOLDEN SPUR, 36 COM W1 1H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3171.0usft (Original Well Elev)
Project:	Permian Delaware Hz New Mexico	MD Reference:	WELL @ 3171.0usft (Original Well Elev)
Site:	GOLDEN SPUR 36 COM W1 1H - PS	North Reference:	Grid
Well:	Golden Spur 36 COM W1 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Prelim Design 1		

Project	Permian Delaware Hz New Mexico, Mexico		
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		

Site	GOLDEN SPUR 36 COM W1 1H - PS, Section 36 and Section 25		
Site Position:		Northing:	364,571.40 usft
From:	Map	Easting:	688,808.14 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 0' 3.090 N
		Longitude:	103° 43' 27.350 W
		Grid Convergence:	0.32 °

Well	Golden Spur 36 COM W1 1H, Exploration - Horizontal		
Well Position	+N/-S	0.0 usft	Northing: 364,571.40 usft
	+E/-W	0.0 usft	Easting: 688,808.14 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 0' 3.090 N
		Longitude:	103° 43' 27.350 W
		Ground Level:	3,146.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
	BGGM2014	5/13/2015	(°)
			7.34
			Dip Angle
			(°)
			59.85
			Field Strength
			(nT)
			48,019

Design	Prelim Design 1		
Audit Notes:			
Version:	1	Phase:	PROTOTYPE
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
		Direction	
		(°)	0.00

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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,333.3	5.00	210.48	2,332.9	-12.5	-7.4	1.50	1.50	0.00	210.48	GS_36_W1_VT
5,106.0	5.00	210.48	5,095.1	-220.8	-130.0	0.00	0.00	0.00	0.00	
5,439.4	0.00	0.00	5,428.0	-233.3	-137.3	1.50	-1.50	0.00	180.00	
11,048.5	0.00	0.00	11,037.1	-233.3	-137.3	0.00	0.00	0.00	0.00	
11,948.5	90.00	359.38	11,610.0	339.6	-143.5	10.00	10.00	-0.07	359.38	
18,830.0	90.00	359.38	11,610.0	7,220.7	-218.1	0.00	0.00	0.00	0.00	GS_36_W1_1H_BHL

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site GOLDEN SPUR 36 COM W1-1H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3171.0usft (Original Well Elev)
Project:	Permian Delaware Hz New Mexico	MD Reference:	WELL @ 3171.0usft (Original Well Elev)
Site:	GOLDEN SPUR 36 COM W1 1H - PS	North Reference:	Grid
Well:	Golden Spur 36 COM W1 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Prelim 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
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
920.0	0.00	0.00	920.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
990.0	0.00	0.00	990.0	0.0	0.0	0.0	0.00	0.00	0.00
13 3/8"									
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,355.0	0.00	0.00	1,355.0	0.0	0.0	0.0	0.00	0.00	0.00
Salado									
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	1.50	210.48	2,100.0	-1.1	-0.7	-1.1	1.50	1.50	0.00
2,200.0	3.00	210.48	2,199.9	-4.5	-2.7	-4.5	1.50	1.50	0.00
2,300.0	4.50	210.48	2,299.7	-10.1	-6.0	-10.1	1.50	1.50	0.00
2,300.3	4.50	210.48	2,300.0	-10.2	-6.0	-10.2	1.50	1.50	0.00
Castile									
2,333.3	5.00	210.48	2,332.9	-12.5	-7.4	-12.5	1.50	1.50	0.00
2,400.0	5.00	210.48	2,399.3	-17.5	-10.3	-17.5	0.00	0.00	0.00
2,500.0	5.00	210.48	2,498.9	-25.0	-14.7	-25.0	0.00	0.00	0.00
2,600.0	5.00	210.48	2,598.6	-32.6	-19.2	-32.6	0.00	0.00	0.00
2,700.0	5.00	210.48	2,698.2	-40.1	-23.6	-40.1	0.00	0.00	0.00
2,800.0	5.00	210.48	2,797.8	-47.6	-28.0	-47.6	0.00	0.00	0.00
2,900.0	5.00	210.48	2,897.4	-55.1	-32.4	-55.1	0.00	0.00	0.00
3,000.0	5.00	210.48	2,997.0	-62.6	-36.8	-62.6	0.00	0.00	0.00
3,100.0	5.00	210.48	3,096.7	-70.1	-41.3	-70.1	0.00	0.00	0.00
3,200.0	5.00	210.48	3,196.3	-77.6	-45.7	-77.6	0.00	0.00	0.00
3,300.0	5.00	210.48	3,295.9	-85.1	-50.1	-85.1	0.00	0.00	0.00
3,400.0	5.00	210.48	3,395.5	-92.6	-54.5	-92.6	0.00	0.00	0.00
3,500.0	5.00	210.48	3,495.1	-100.2	-59.0	-100.2	0.00	0.00	0.00
3,600.0	5.00	210.48	3,594.8	-107.7	-63.4	-107.7	0.00	0.00	0.00
3,700.0	5.00	210.48	3,694.4	-115.2	-67.8	-115.2	0.00	0.00	0.00
3,800.0	5.00	210.48	3,794.0	-122.7	-72.2	-122.7	0.00	0.00	0.00
3,900.0	5.00	210.48	3,893.6	-130.2	-76.6	-130.2	0.00	0.00	0.00
4,000.0	5.00	210.48	3,993.2	-137.7	-81.1	-137.7	0.00	0.00	0.00
4,100.0	5.00	210.48	4,092.9	-145.2	-85.5	-145.2	0.00	0.00	0.00
4,172.4	5.00	210.48	4,165.0	-150.7	-88.7	-150.7	0.00	0.00	0.00

Delaware - 9 5/8"

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site GOLDEN SPUR 36 COM W1 1H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3171.0usft (Original Well Elev)
Project:	Permian Delaware Hz New Mexico	MD Reference:	WELL @ 3171.0usft (Original Well Elev)
Site:	GOLDEN SPUR 36 COM W1 1H - PS	North Reference:	Grid
Well:	Golden Spur 36 COM W1 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Prelim 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)
4,200.0	5.00	210.48	4,192.5	-152.7	-89.9	-152.7	0.00	0.00	0.00
4,242.7	5.00	210.48	4,235.0	-155.9	-91.8	-155.9	0.00	0.00	0.00
Ford Shale									
4,300.0	5.00	210.48	4,292.1	-160.2	-94.3	-160.2	0.00	0.00	0.00
4,400.0	5.00	210.48	4,391.7	-167.8	-98.7	-167.8	0.00	0.00	0.00
4,500.0	5.00	210.48	4,491.3	-175.3	-103.2	-175.3	0.00	0.00	0.00
4,600.0	5.00	210.48	4,591.0	-182.8	-107.6	-182.8	0.00	0.00	0.00
4,700.0	5.00	210.48	4,690.6	-190.3	-112.0	-190.3	0.00	0.00	0.00
4,800.0	5.00	210.48	4,790.2	-197.8	-116.4	-197.8	0.00	0.00	0.00
4,900.0	5.00	210.48	4,889.8	-205.3	-120.8	-205.3	0.00	0.00	0.00
5,000.0	5.00	210.48	4,989.4	-212.8	-125.3	-212.8	0.00	0.00	0.00
5,100.0	5.00	210.48	5,089.0	-220.3	-129.7	-220.3	0.00	0.00	0.00
5,106.0	5.00	210.48	5,095.1	-220.8	-130.0	-220.8	0.00	0.00	0.00
5,121.0	4.78	210.48	5,110.0	-221.9	-130.6	-221.9	1.50	-1.50	0.00
Cherry Canyon									
5,200.0	3.59	210.48	5,188.8	-226.9	-133.5	-226.9	1.50	-1.50	0.00
5,300.0	2.09	210.48	5,288.6	-231.1	-136.0	-231.1	1.50	-1.50	0.00
5,400.0	0.59	210.48	5,388.6	-233.1	-137.2	-233.1	1.50	-1.50	0.00
5,439.4	0.00	0.00	5,428.0	-233.3	-137.3	-233.3	1.50	-1.50	0.00
5,500.0	0.00	0.00	5,488.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
5,600.0	0.00	0.00	5,588.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
5,700.0	0.00	0.00	5,688.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
5,800.0	0.00	0.00	5,788.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
5,900.0	0.00	0.00	5,888.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,000.0	0.00	0.00	5,988.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,100.0	0.00	0.00	6,088.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,200.0	0.00	0.00	6,188.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,300.0	0.00	0.00	6,288.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,400.0	0.00	0.00	6,388.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,496.4	0.00	0.00	6,485.0	-233.3	-137.3	-233.3	0.00	0.00	0.00
Brushy Canyon									
6,500.0	0.00	0.00	6,488.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,600.0	0.00	0.00	6,588.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,700.0	0.00	0.00	6,688.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,800.0	0.00	0.00	6,788.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,900.0	0.00	0.00	6,888.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,000.0	0.00	0.00	6,988.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,100.0	0.00	0.00	7,088.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,200.0	0.00	0.00	7,188.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,300.0	0.00	0.00	7,288.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,400.0	0.00	0.00	7,388.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,500.0	0.00	0.00	7,488.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,600.0	0.00	0.00	7,588.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,700.0	0.00	0.00	7,688.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,800.0	0.00	0.00	7,788.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,888.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,988.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,100.0	0.00	0.00	8,088.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,200.0	0.00	0.00	8,188.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,288.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,388.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,488.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,588.6	-233.3	-137.3	-233.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site GOLDEN SPUR 36 COM W1 1H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3171.0usft (Original Well Elev)
Project:	Permian Delaware Hz New Mexico	MD Reference:	WELL @ 3171.0usft (Original Well Elev)
Site:	GOLDEN SPUR 36 COM W1 1H - PS	North Reference:	Grid
Well:	Golden Spur 36 COM W1 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Prelim 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)
8,700.0	0.00	0.00	8,688.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,788.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,888.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,988.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,100.0	0.00	0.00	9,088.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,161.4	0.00	0.00	9,150.0	-233.3	-137.3	-233.3	0.00	0.00	0.00
Bone Springs									
9,200.0	0.00	0.00	9,188.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,288.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,388.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,488.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,588.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,688.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,788.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,888.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,988.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,100.0	0.00	0.00	10,088.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,200.0	0.00	0.00	10,188.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,231.4	0.00	0.00	10,220.0	-233.3	-137.3	-233.3	0.00	0.00	0.00
Bone Springs 3rd Carb									
10,300.0	0.00	0.00	10,288.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,388.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,488.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,588.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,688.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,788.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,888.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,988.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
11,048.5	0.00	0.00	11,037.1	-233.3	-137.3	-233.3	0.00	0.00	0.00
11,100.0	5.15	359.38	11,088.5	-231.0	-137.3	-231.0	10.00	10.00	0.00
11,200.0	15.15	359.38	11,186.8	-213.4	-137.5	-213.4	10.00	10.00	0.00
11,300.0	25.15	359.38	11,280.6	-179.0	-137.9	-179.0	10.00	10.00	0.00
11,355.9	30.75	359.38	11,330.0	-152.8	-138.2	-152.8	10.00	10.00	0.00
Wolfcamp									
11,400.0	35.15	359.38	11,367.0	-128.8	-138.5	-128.8	10.00	10.00	0.00
11,500.0	45.15	359.38	11,443.3	-64.4	-139.2	-64.4	10.00	10.00	0.00
11,600.0	55.15	359.38	11,507.3	12.3	-140.0	12.3	10.00	10.00	0.00
11,642.0	59.35	359.38	11,530.0	47.6	-140.4	47.6	10.00	10.00	0.00
Wolfcamp 1									
11,700.0	65.15	359.38	11,557.0	98.9	-140.9	98.9	10.00	10.00	0.00
11,800.0	75.15	359.38	11,590.9	192.8	-141.9	192.8	10.00	10.00	0.00
11,872.5	82.40	359.38	11,605.0	263.9	-142.7	263.9	10.00	10.00	0.00
7 5/8"									
11,900.0	85.15	359.38	11,608.0	291.2	-143.0	291.2	10.00	10.00	0.00
11,948.5	90.00	359.38	11,610.0	339.6	-143.5	339.6	10.00	10.00	0.00
12,000.0	90.00	359.38	11,610.0	391.1	-144.1	391.1	0.00	0.00	0.00
12,100.0	90.00	359.38	11,610.0	491.1	-145.2	491.1	0.00	0.00	0.00
12,200.0	90.00	359.38	11,610.0	591.1	-146.3	591.1	0.00	0.00	0.00
12,300.0	90.00	359.38	11,610.0	691.1	-147.3	691.1	0.00	0.00	0.00
12,400.0	90.00	359.38	11,610.0	791.1	-148.4	791.1	0.00	0.00	0.00
12,500.0	90.00	359.38	11,610.0	891.1	-149.5	891.1	0.00	0.00	0.00
12,600.0	90.00	359.38	11,610.0	991.1	-150.6	991.1	0.00	0.00	0.00
12,700.0	90.00	359.38	11,610.0	1,091.1	-151.7	1,091.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site GOLDEN SPUR 36 COM W1 1H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3171.0usft (Original Well Elev)
Project:	Permian Delaware Hz New Mexico	MD Reference:	WELL @ 3171.0usft (Original Well Elev)
Site:	GOLDEN SPUR 36 COM W1 1H - PS	North Reference:	Grid
Well:	Golden Spur 36 COM W1 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Prelim 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)
12,800.0	90.00	359.38	11,610.0	1,191.1	-152.8	1,191.1	0.00	0.00	0.00
12,900.0	90.00	359.38	11,610.0	1,291.1	-153.8	1,291.1	0.00	0.00	0.00
13,000.0	90.00	359.38	11,610.0	1,391.1	-154.9	1,391.1	0.00	0.00	0.00
13,100.0	90.00	359.38	11,610.0	1,491.1	-156.0	1,491.1	0.00	0.00	0.00
13,200.0	90.00	359.38	11,610.0	1,591.1	-157.1	1,591.1	0.00	0.00	0.00
13,300.0	90.00	359.38	11,610.0	1,691.1	-158.2	1,691.1	0.00	0.00	0.00
13,400.0	90.00	359.38	11,610.0	1,791.1	-159.2	1,791.1	0.00	0.00	0.00
13,500.0	90.00	359.38	11,610.0	1,891.1	-160.3	1,891.1	0.00	0.00	0.00
13,600.0	90.00	359.38	11,610.0	1,991.0	-161.4	1,991.0	0.00	0.00	0.00
13,700.0	90.00	359.38	11,610.0	2,091.0	-162.5	2,091.0	0.00	0.00	0.00
13,800.0	90.00	359.38	11,610.0	2,191.0	-163.6	2,191.0	0.00	0.00	0.00
13,900.0	90.00	359.38	11,610.0	2,291.0	-164.7	2,291.0	0.00	0.00	0.00
14,000.0	90.00	359.38	11,610.0	2,391.0	-165.7	2,391.0	0.00	0.00	0.00
14,100.0	90.00	359.38	11,610.0	2,491.0	-166.8	2,491.0	0.00	0.00	0.00
14,200.0	90.00	359.38	11,610.0	2,591.0	-167.9	2,591.0	0.00	0.00	0.00
14,300.0	90.00	359.38	11,610.0	2,691.0	-169.0	2,691.0	0.00	0.00	0.00
14,400.0	90.00	359.38	11,610.0	2,791.0	-170.1	2,791.0	0.00	0.00	0.00
14,500.0	90.00	359.38	11,610.0	2,891.0	-171.2	2,891.0	0.00	0.00	0.00
14,600.0	90.00	359.38	11,610.0	2,991.0	-172.2	2,991.0	0.00	0.00	0.00
14,700.0	90.00	359.38	11,610.0	3,091.0	-173.3	3,091.0	0.00	0.00	0.00
14,800.0	90.00	359.38	11,610.0	3,191.0	-174.4	3,191.0	0.00	0.00	0.00
14,900.0	90.00	359.38	11,610.0	3,291.0	-175.5	3,291.0	0.00	0.00	0.00
15,000.0	90.00	359.38	11,610.0	3,391.0	-176.6	3,391.0	0.00	0.00	0.00
15,100.0	90.00	359.38	11,610.0	3,491.0	-177.7	3,491.0	0.00	0.00	0.00
15,200.0	90.00	359.38	11,610.0	3,591.0	-178.7	3,591.0	0.00	0.00	0.00
15,300.0	90.00	359.38	11,610.0	3,690.9	-179.8	3,690.9	0.00	0.00	0.00
15,400.0	90.00	359.38	11,610.0	3,790.9	-180.9	3,790.9	0.00	0.00	0.00
15,500.0	90.00	359.38	11,610.0	3,890.9	-182.0	3,890.9	0.00	0.00	0.00
15,600.0	90.00	359.38	11,610.0	3,990.9	-183.1	3,990.9	0.00	0.00	0.00
15,700.0	90.00	359.38	11,610.0	4,090.9	-184.2	4,090.9	0.00	0.00	0.00
15,800.0	90.00	359.38	11,610.0	4,190.9	-185.2	4,190.9	0.00	0.00	0.00
15,900.0	90.00	359.38	11,610.0	4,290.9	-186.3	4,290.9	0.00	0.00	0.00
16,000.0	90.00	359.38	11,610.0	4,390.9	-187.4	4,390.9	0.00	0.00	0.00
16,100.0	90.00	359.38	11,610.0	4,490.9	-188.5	4,490.9	0.00	0.00	0.00
16,200.0	90.00	359.38	11,610.0	4,590.9	-189.6	4,590.9	0.00	0.00	0.00
16,300.0	90.00	359.38	11,610.0	4,690.9	-190.7	4,690.9	0.00	0.00	0.00
16,400.0	90.00	359.38	11,610.0	4,790.9	-191.7	4,790.9	0.00	0.00	0.00
16,500.0	90.00	359.38	11,610.0	4,890.9	-192.8	4,890.9	0.00	0.00	0.00
16,600.0	90.00	359.38	11,610.0	4,990.9	-193.9	4,990.9	0.00	0.00	0.00
16,700.0	90.00	359.38	11,610.0	5,090.9	-195.0	5,090.9	0.00	0.00	0.00
16,800.0	90.00	359.38	11,610.0	5,190.9	-196.1	5,190.9	0.00	0.00	0.00
16,900.0	90.00	359.38	11,610.0	5,290.9	-197.2	5,290.9	0.00	0.00	0.00
17,000.0	90.00	359.38	11,610.0	5,390.8	-198.2	5,390.8	0.00	0.00	0.00
17,100.0	90.00	359.38	11,610.0	5,490.8	-199.3	5,490.8	0.00	0.00	0.00
17,200.0	90.00	359.38	11,610.0	5,590.8	-200.4	5,590.8	0.00	0.00	0.00
17,300.0	90.00	359.38	11,610.0	5,690.8	-201.5	5,690.8	0.00	0.00	0.00
17,400.0	90.00	359.38	11,610.0	5,790.8	-202.6	5,790.8	0.00	0.00	0.00
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17,800.0	90.00	359.38	11,610.0	6,190.8	-206.9	6,190.8	0.00	0.00	0.00
17,900.0	90.00	359.38	11,610.0	6,290.8	-208.0	6,290.8	0.00	0.00	0.00
18,000.0	90.00	359.38	11,610.0	6,390.8	-209.1	6,390.8	0.00	0.00	0.00
18,100.0	90.00	359.38	11,610.0	6,490.8	-210.1	6,490.8	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site GOLDEN SPUR 36 COM W1 1H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3171.0usft (Original Well Elev)
Project:	Permian Delaware Hz New Mexico	MD Reference:	WELL @ 3171.0usft (Original Well Elev)
Site:	GOLDEN SPUR 36 COM W1 1H - PS	North Reference:	Grid
Well:	Golden Spur 36 COM W1 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Prelim 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)
18,200.0	90.00	359.38	11,610.0	6,590.8	-211.2	6,590.8	0.00	0.00	0.00
18,300.0	90.00	359.38	11,610.0	6,690.8	-212.3	6,690.8	0.00	0.00	0.00
18,400.0	90.00	359.38	11,610.0	6,790.8	-213.4	6,790.8	0.00	0.00	0.00
18,500.0	90.00	359.38	11,610.0	6,890.8	-214.5	6,890.8	0.00	0.00	0.00
18,600.0	90.00	359.38	11,610.0	6,990.8	-215.6	6,990.8	0.00	0.00	0.00
18,700.0	90.00	359.38	11,610.0	7,090.7	-216.6	7,090.7	0.00	0.00	0.00
18,800.0	90.00	359.38	11,610.0	7,190.7	-217.7	7,190.7	0.00	0.00	0.00
18,830.0	90.00	359.38	11,610.0	7,220.7	-218.1	7,220.7	0.00	0.00	0.00
5"									

Targets

Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
GS_36_W1_VT	- plan misses target center by 270.7usft at 20.0usft MD (20.0 TVD, 0.0 N, 0.0 E)	0.00	0.00	20.0	-233.3	-137.3	364,338.07	688,670.81	32° 0' 0.788 N	103° 43' 28.960 W
GS_36_W1_1H_BHL	- plan hits target center	0.00	0.00	11,610.0	7,220.7	-218.1	371,792.14	688,590.09	32° 1' 14.560 N	103° 43' 29.410 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
990.0	990.0	13 3/8"	13-3/8	17-1/2
4,172.4	4,165.0	9 5/8"	9-5/8	12-1/4
11,872.5	11,605.0	7 5/8"	7-5/8	8-3/4
18,830.0	11,610.0	5"	5-1/2	6-3/4

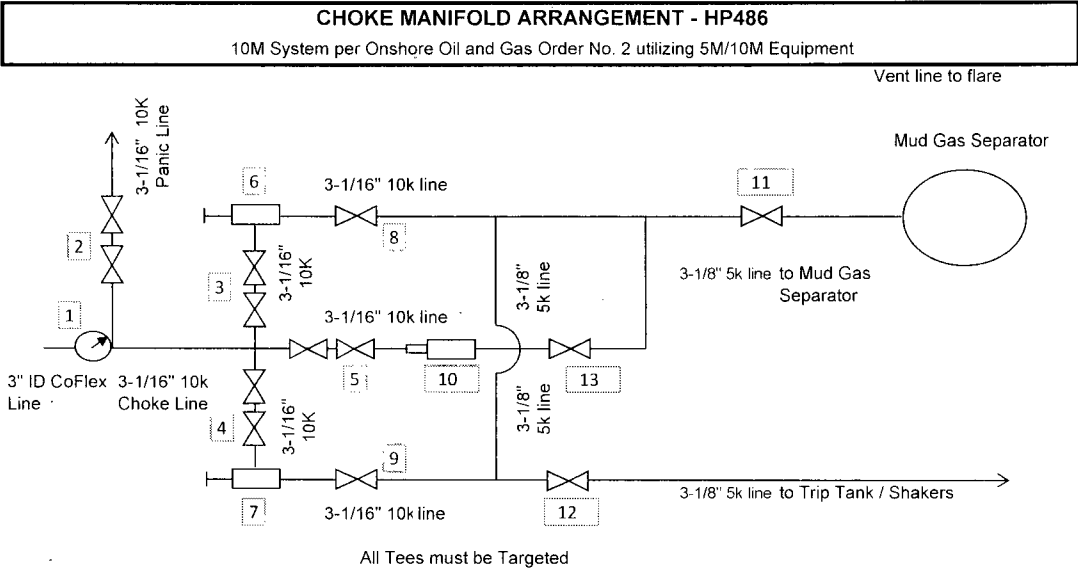
Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,172.4	4,165.0	Delaware			
10,231.4	10,220.0	Bone Springs 3rd Carb			
11,355.9	11,330.0	Wolfcamp			
920.0	920.0	Rustler			
5,121.0	5,110.0	Cherry Canyon			
1,355.0	1,355.0	Salado			
9,161.4	9,150.0	Bone Springs			
2,300.3	2,300.0	Castile			
11,642.0	11,530.0	Wolfcamp 1			
6,496.4	6,485.0	Brushy Canyon			
4,242.7	4,235.0	Ford Shale			

ConocoPhillips
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site GOLDEN SPUR 36 COM W1 1H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3171.0usft (Original Well Elev)
Project:	Permian Delaware Hz New Mexico	MD Reference:	WELL @ 3171.0usft (Original Well Elev)
Site:	GOLDEN SPUR 36 COM W1 1H - PS	North Reference:	Grid
Well:	Golden Spur 36 COM W1 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Prelim Design 1		

Attachment #2



Item	Description
1	Pressure Gauge
2	2 Gate Valves, 3-1/16" 10M
3	2 Gate Valves, 3-1/16" 10M
4	2 Gate Valves, 3-1/16" 10M
5	2 Gate Valves, 3-1/16" 10M
6	Upper Manual Adjustable Choke, 4-1/16", 10M
7	Lower Manual Adjustable Choke, 4-1/16", 10M
8	Gate Valve, 3-1/16" 10M
9	Gate Valve, 3-1/16" 10M
10	Remote Controlled Hydraulic Adjustable Choke, 4-1/16", 10M
11	Gate Valve, 3-1/8" 5M
12	Gate Valve, 3-1/8" 5M
13	Gate Valve, 3-1/16" 10M

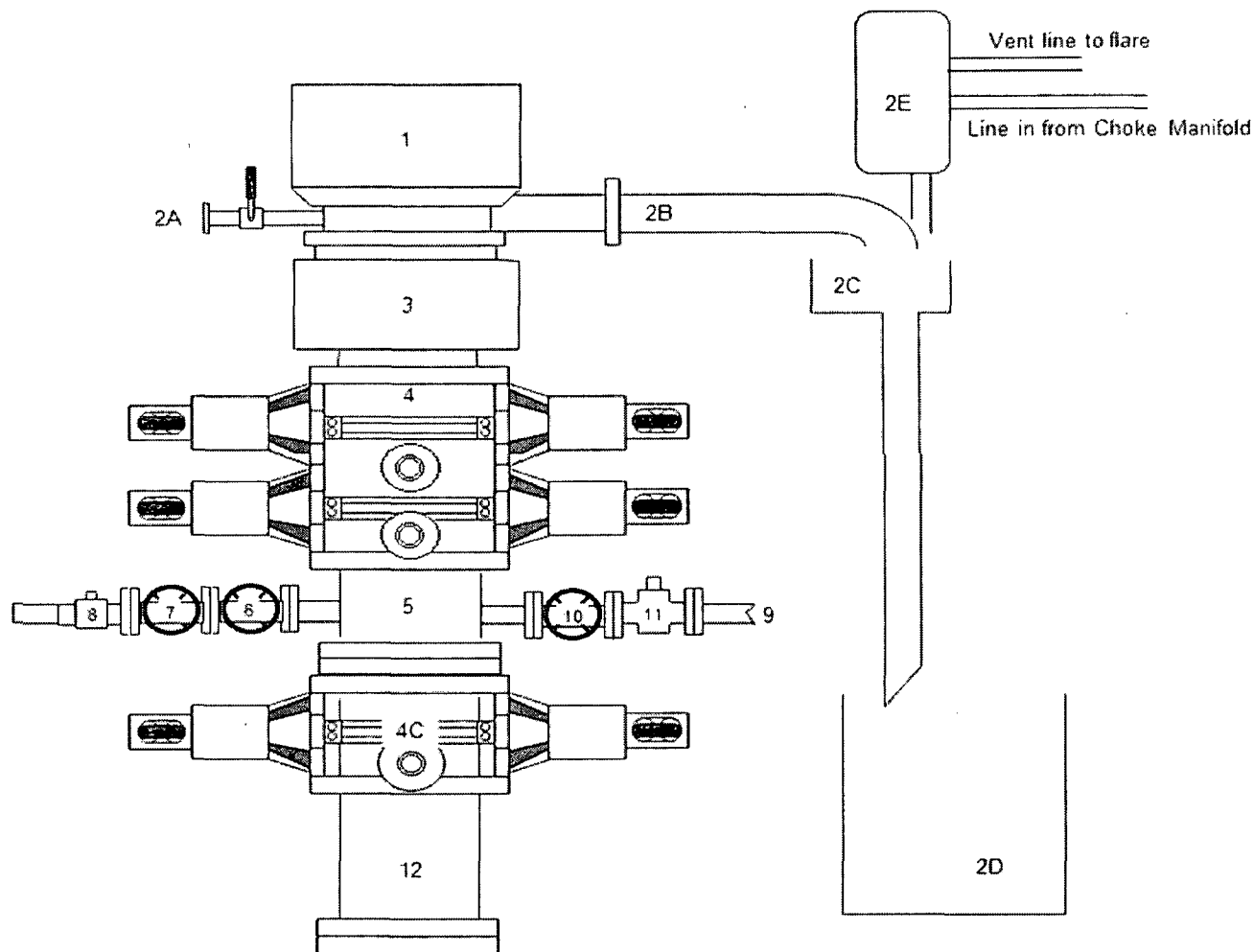
The 10M Choke Manifold & Valves will be tested to rated working pressure.

Drawn by:
James Chen, P.E.
Drilling Engineer, ConocoPhillips Company
Date: June 25th-2014

Attachment #2

BLOWOUT PREVENTER ARRANGEMENT - H&P486

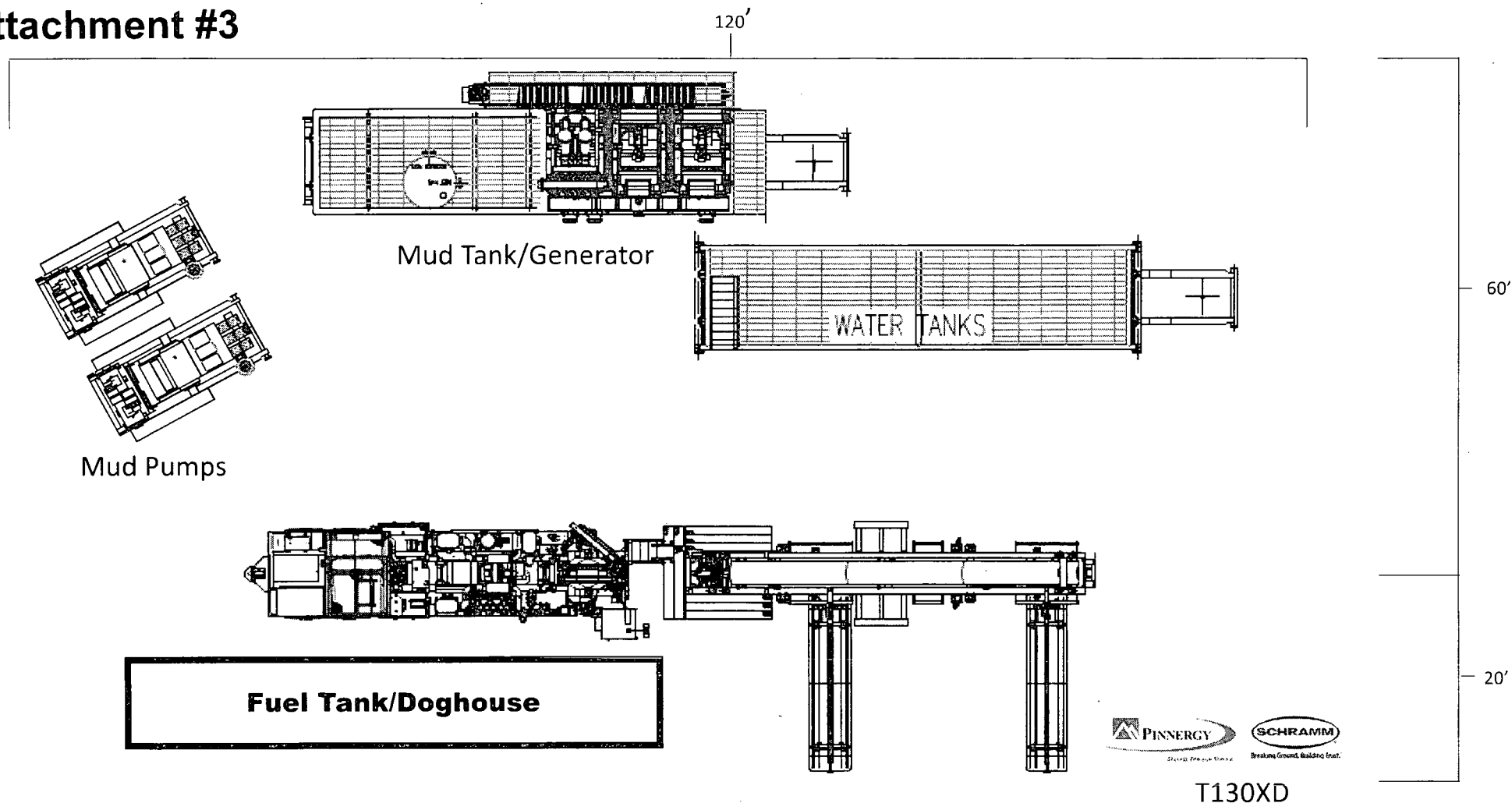
10M System per Onshore Oil and Gas Order No. 2 utilizing 10M Rated Equipment



Item	Description
1	Rotating Head
2A	Fill up Line and Valve
2B	Flow Line (8")
2C	Shale Shakers and Centrifuges
2D	Cuttings Bins for Zero Discharge
2E	Mud Gas Separator with vent line to flare and return line to mud system
3	Annular Preventer (13-5/8", 10M)
4	Double Ram (13-5/8", 10M, Bline Ram bottom x Pipe Ram top)
5	Drilling Spool (13-5/8" 10M)
4C	Single Ram (13-5/8", 10M, Pipe Rams)
6	Kill Line Gate Valve, Inner (4-1/16", 10k psi WP)
7	Kill Line Gate Valve, Outer (4-1/16", 10k psi WP)
8	Kill Line Check Valve (4-1/16", 10k psi WP)
9	CoFlex hose Line (4-1/16", 10k psi WP)
10	Choke Line Gate Valve, Inner (4-1/16", 10k psi WP)
11	Choke Line Hydraulically Operated Gate Valve, Outer, (4-1/6" 10k psi WP HCR)
12	Drilling Spool Adapter (13-5/8", 10M)

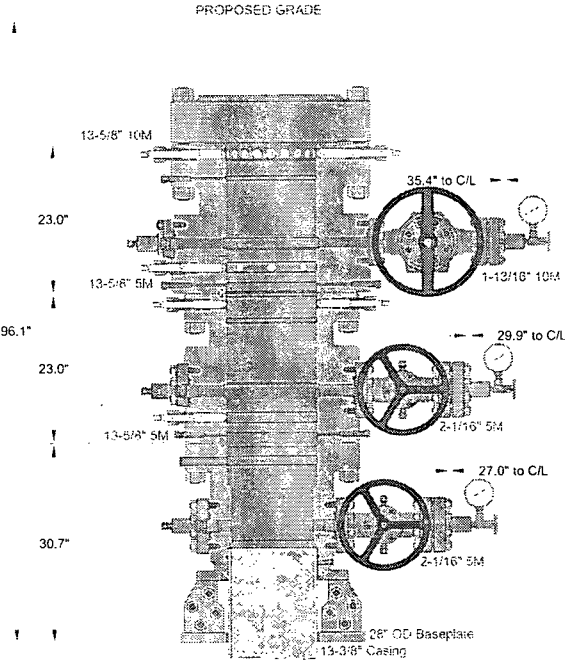
Drawn by:
James Chen, P.E.
Drilling Engineer, ConocoPhillips Company
Date: June 25th-2014

Attachment #3

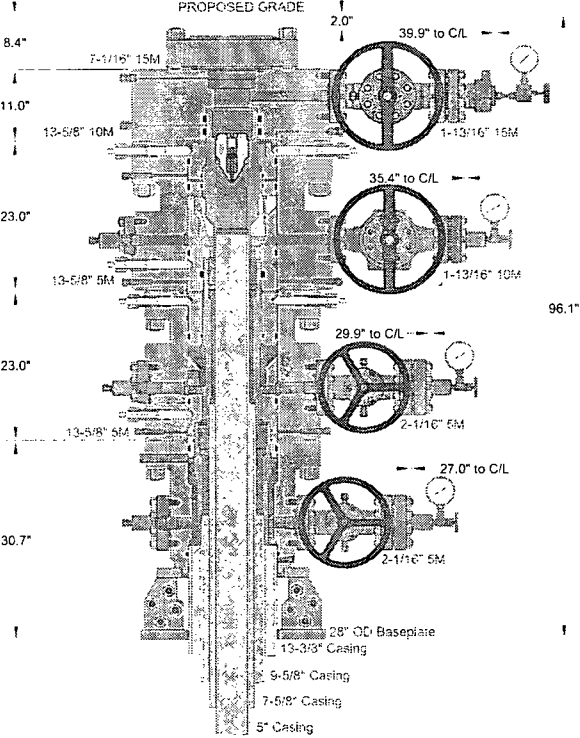


“Pinnergy #1” Spudder Rig Layout

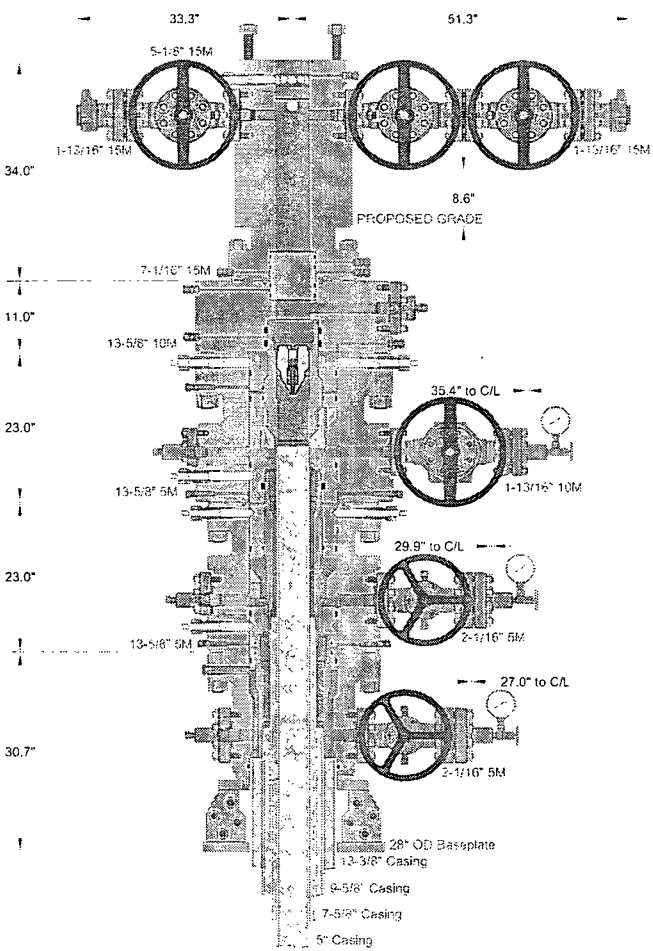
Attachment #3



SPUD CONFIGURATION



DRILL & SKID CONFIGURATION



COMPLETION CONFIGURATION

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CACTUS WELLHEAD LLC		CONOCOPHILLIPS 4 STRING CONFIGURATION	
13-3/8" x 9-5/8" x 7-5/8" x 5" 5M MBS2 Wellhead System With 13-5/8" 10M x 7-1/16" 15M DBLHPS DSPA And 7-1/16" 15M x 5-1/8" 15M CMT-FB-EN Tubing Head, 34" Tall		DRAWN THH	23FEB15
		APPROV	
		DRAWING NO.	ODE0000491

Attachment # 5

January 28 2014



Connection: Wedge 523™
Casing/Tubing: CAS

Size: 7.625 in.
Wall: 0.375 in.
Weight: 29.70 lbs/ft
Grade: P110
Min. Wall Thickness: 87.5 %

PIPE BODY DATA

GEOMETRY			
Nominal OD	7.625 in.	Nominal Weight	29.70 lbs/ft
Nominal ID	6.875 in.	Wall Thickness	0.375 in.
Plain End Weight	29.06 lbs/ft	Standard Drift Diameter	6.750 in.
		Special Drift Diameter	N/A

PERFORMANCE

Body Yield Strength	940 x 1000 lbs	Internal Yield	9470 psi
Collapse	5350 psi	SMYS	110000 psi

WEDGE 523™ CONNECTION DATA

GEOMETRY			
Connection OD	7.752 in.	Connection ID	6.800 in.
Critical Section Area	6.021 sq. in.	Threads per in.	3.29
		Make-Up Loss	4.420 in.

PERFORMANCE

Tension Efficiency	70.5 %	Joint Yield Strength	663 x 1000 lbs
Compression Strength	768 x 1000 lbs	Compression Efficiency	81.7 %
External Pressure Capacity	5350 psi	Internal Pressure Capacity	9470 psi
		Bending	47 °/100 ft

MAKE-UP TORQUES

Minimum	9900 ft-lbs	Target	11900 ft-lbs
		Maximum (±)	17300 ft-lbs

OPERATIONAL LIMIT TORQUES

Operating Torque	52000 ft-lbs	Yield Torque	78000 ft-lbs
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BLANKING DIMENSIONS

Blanking Dimensions

* If you need to use torque values that are higher than the maximum indicated, please contact a local Tenaris technical sales representative.

October 21 2014



Connection: Blue®
Casing/Tubing: CAS
Coupling Option: REGULAR

Size: 5.000 in.
Wall: 0.362 in.
Weight: 18.00 lbs/ft
Grade: P110
Min. Wall Thickness: 87.5 %

PIPE BODY DATA

GEOMETRY			
Nominal OD	5.000 in.	Nominal Weight	18.00 lbs/ft
Nominal ID	4.276 in.	Wall Thickness	0.362 in.
Plain End Weight	17.95 lbs/ft.	Standard Drift Diameter	4.151 in.
		Special Drift Diameter	N/A

PERFORMANCE

Body Yield Strength	580 x 1000 lbs	Internal Yield	13940 psi
Collapse	13470 psi	SMYS	110000 psi

BLUE® CONNECTION DATA

GEOMETRY			
Connection OD	5.630 in.	Coupling Length	10.551 in.
Critical Section Area	5.275 sq. in.	Make-Up Loss	4.579 in.
		Connection ID	4.264 in.
		Threads per in.	5.00

PERFORMANCE

Tension Efficiency	100 %	Joint Yield Strength	580 x 1000 lbs
Compression Efficiency	100 %	Compression Strength	580 x 1000 lbs
External Pressure Capacity	13470 psi	Internal Pressure Capacity	13940 psi
		Bending	101 °/100 ft

MAKE-UP TORQUES

Minimum	6400 ft-lbs	Target	7110 ft-lbs
		Maximum	7820 ft-lbs

OPERATIONAL LIMIT TORQUES

Operating Torque	ASK	Yield Torque	17600 ft-lbs
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SHOULDER TORQUES

Minimum	1070 ft-lbs	Maximum	6040 ft-lbs
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BLANKING DIMENSIONS

Blanking Dimensions

Datasheet is also valid for Special Bevel option when applicable.

December 18 2014



Connection: TenarisXP™ BTC
Casing/Tubing: CAS
Coupling Option: REGULAR

Size: 5.000 in.
Wall: 0.362 in.
Weight: 18.00 lbs/ft
Grade: P110
Min. Wall Thickness: 87.5 %

PIPE BODY DATA			
GEOMETRY			
Nominal OD	5.000 in.	Nominal Weight	18.00 lbs/ft
Nominal ID	4.276 in.	Wall Thickness	0.362 in.
Plain End Weight	17.95 lbs/ft	Standard Drift Diameter	4.151 in.
		Special Drift Diameter	N/A
PERFORMANCE			
Body Yield Strength	580 x 1000 lbs	Internal Yield	13940 psi
Collapse	13470 psi	SMYS	110000 psi
TENARISXP™ BTC CONNECTION DATA			
GEOMETRY			
Connection OD	5.720 in.	Coupling Length	9.325 in.
Critical Section Area	5.275 sq. in.	Threads per in.	5.00
		Connection ID	4.264 in.
		Make-Up Loss	4.141 in.
PERFORMANCE			
Tension Efficiency	100 %	Joint Yield Strength	580 x 1000 lbs
Structural Compression Efficiency	100 %	Structural Compression Strength	580 x 1000 lbs
External Pressure Capacity	13470 psi	Internal Pressure Capacity ⁽¹⁾	13940 psi
		Structural Bending ⁽²⁾	101 °/100 ft
ESTIMATED MAKE-UP TORQUES ⁽³⁾			
Minimum	N/A ft-lbs	Target	N/A ft-lbs
		Maximum	N/A ft-lbs
OPERATIONAL LIMIT TORQUES			
Operating Torque	ASK	Yield Torque	N/A ft-lbs
BLANKING DIMENSIONS			

Blanking Dimensions

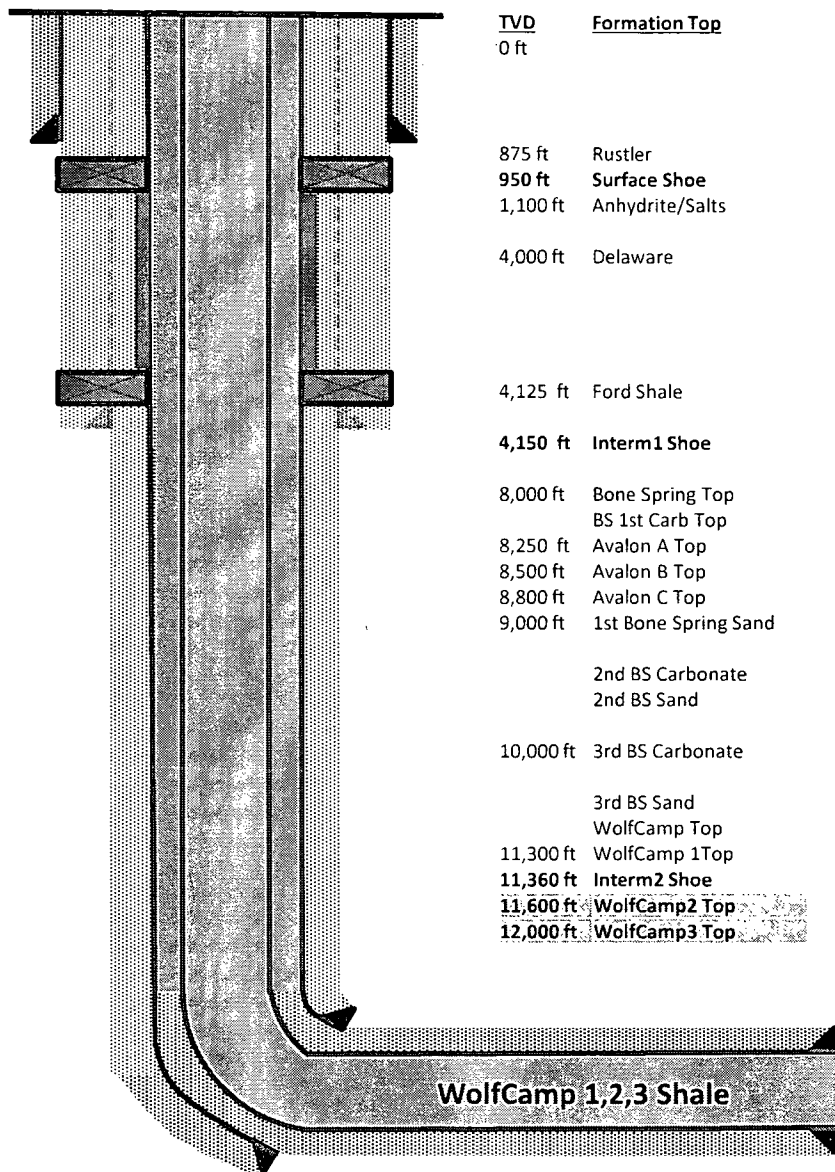
(1) Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per section 10.3 API 5C3 / ISO 10400 - 2007.

(2) Structural rating, pure bending to yield (i.e no other loads applied)

(3) Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at licensees@oilfield.tenaris.com. Torque values may be further reviewed.

For additional information, please contact us at contact-tenarishydril@tenaris.com

Attachment #2– Option not to run 9-5/8" Csg



Surface Section:

- Objective: Protect fresh water horizons.
- Drill 17-1/2" hole to +/- 950 ft. "Rustler"
- Mud weight: 8.6 – 9.1 ppg FW-Native Mud
- Set 13-3/8" 54.5# J-55 BTC casing.
- Cement to surface.

Intermediate1 Section (Only for Contingency):

- Objective: Isolate the Salado Salt and Delaware Sand interval.
- Drill 12-1/4" hole to +/- 4,150 ft. "Ford Shale"
- Mud weight: 10.0 ppg Brine.
- Set 9-5/8" 40# L-80 BTC casing.
- Cement to surface.

Intermediate2 Section:

- Objective: Isolate depleted/weak formations above WC1.
- Drill 8-3/4" hole to +/- 11,360 ft. 110'-120' inside WC1 Top.
- Mud weight: 8.9 – 10.5 ppg Brine or OBM w/ 25 ppb WBS
- Set 7-5/8" 29.7# P-110 Tenaris W523 casing.
- Cement to surface.
- 2 or 3-Stage Contingency with 2ea. Packer/Stage Collars
- Bond Coat ~ 3000' of Csg covering the Delaware Sands

Production Section:

- Objective: Provide zonal isolation of production interval and provide medium for stimulation.
- Drill 6-3/4" hole to +/-18,000ft – 20,000ft. "Production TD"
- Mud Weight: 13.5 – 15.2 ppg OBM.
- Set 5" 18# P-110 TenBlue/TXP casing.
- Cement lap 500 ft above previous shoe (near KOP).

Attachment #7

Request for Variance

ConocoPhillips Company

Rig: If drilled with H&P 486

Date: 7/24/2014

Request:

ConocoPhillips Company respectfully requests a variance to install a flexible choke line instead of a straight choke line prescribed in the Onshore Order No. 2, III.A.2.b Minimum standards and enforcement provisions for choke manifold equipment. This request is made under the provision of Onshore Order No. 2, IV Variances from Minimum Standard. The rig to be used to drill this well is equipped with a flexible choke line if the requested variance is approved and determined that the proposed alternative meets the objectives of the applicable minimum standards.

Justifications:

The applicability of the flexible choke line will reduce the number of target tees required to make up from the choke valve to the choke manifold. This configuration will facilitate ease of rig up and BOPE Testing.

Attachments:

- Attachment # 1 Specification from Manufacturer
- Attachment # 2 Mill & Test Certification from Manufacturer

Contact Information:

Program prepared by:
Jason A. Levinson
Drilling Engineer, ConocoPhillips Company
Phone (281) 206-5335
Cell (281) 682-2783
Date: 05 February 2014

Attachment #1

CONTITECH RUBBER Industrial Kit.	No: QC-DB- 45 / 2012
	Page: 9 / 50



Hose Data Sheet

CRI Order No.	516273
Customer	ContiTech Beattie Co.
Customer Order No	PD5438 STOCK
Item No.	3
Hose Type	Flexible Hose
Standard	API SPEC 16 C
Inside dia in inches	3
Length	35 ft
Type of coupling one end	FLANGE 4 1/16" API SPEC 6A TYPE 6BX FOR 10000 PSIBX155 RING GROOVE
Type of coupling other end	FLANGE 4 1/16" API SPEC 6A TYPE 6BX FOR 10000 PSI BX155 RING GROOVE
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St. steel outer wrap
Internal stripwound tube	No
Lining	OIL RESISTANT
Safety clamp	No
Lifting collar	No
Element C	No
Safety chain	No
Safety wire rope	No
Max. design temperature [°C]	100
Min. design temperature [°C]	-20
MBR operating [m]	1,60
MBR storage [m]	1,40
Type of packing	WOODEN CRATE ISPM-15

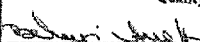
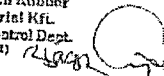
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Fluid Technology

Quality Document

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE						CERT. N°:	184
PURCHASER: ContiTech Beattie Co.						P.O. N°:	005438
CONTITECH ORDER N°: 516273			HOSE TYPE: 3" ID		Choke and Kill Hose		
HOSE SERIAL N°: 61477			NOMINAL / ACTUAL LENGTH:		10,67 m / 10,71 m		
W.P. 68,9 MPa		10000 psi	T.P. 103,4 MPa		15000 psi	Duration:	60 min.
Pressure test with water at ambient temperature							
See attachment. (1 page)							
↑ 10 mm = 10 Min. → 10 mm = 20 MPa							
COUPLINGS Type		Serial N°		Quality		Heat N°	
3" coupling with		10178 10173		AISI 4130		20231	
4 1/16" 10K API Flange end				AISI 4130		33051	
NOT DESIGNED FOR WELL TESTING						API Spec 16 C	
						Temperature rate:"B"	
All metal parts are flawless							
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.							
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.							
COUNTRY OF ORIGIN HUNGARY/EU							
Date:	Inspector		Quality Control		ContiTech Rubber Industrial Kft. Quality Control Dept. (H)		
30. January 2012.					 		

No: 182, 184, 185

Page: 171


 Certified Public
 Industrial Hyg.
 Quality Control Dept.
 (2)

78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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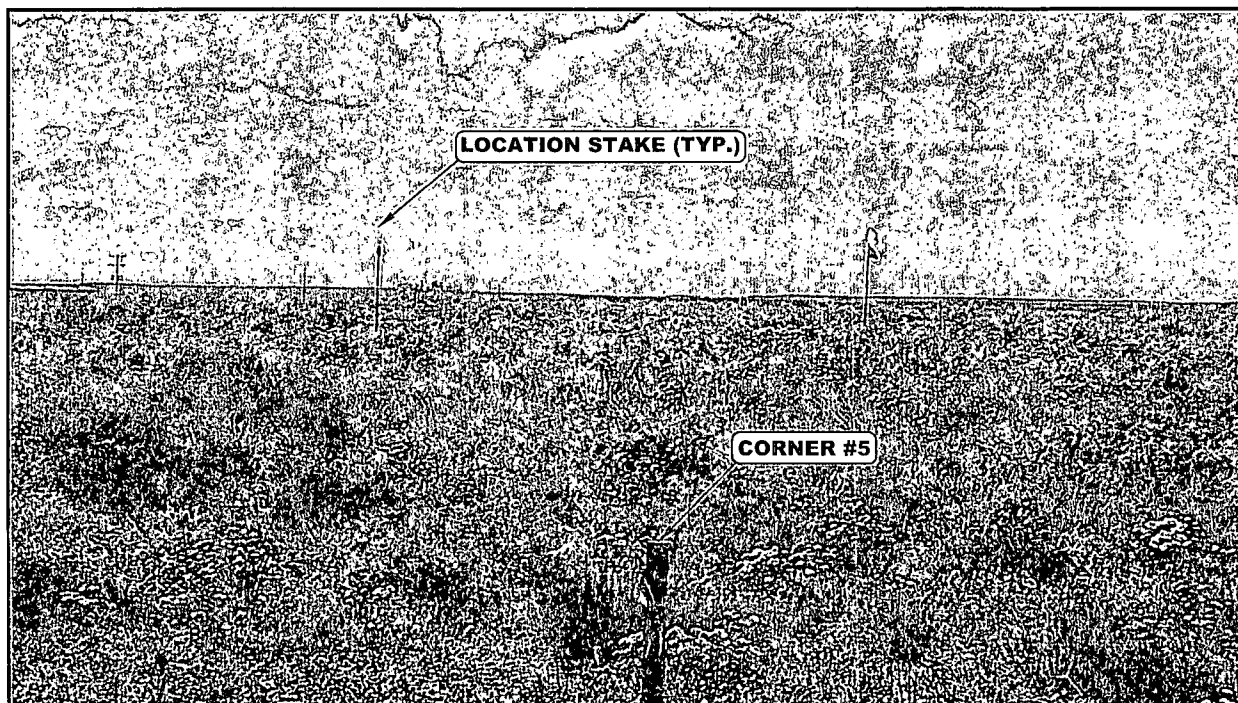


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: WESTERLY

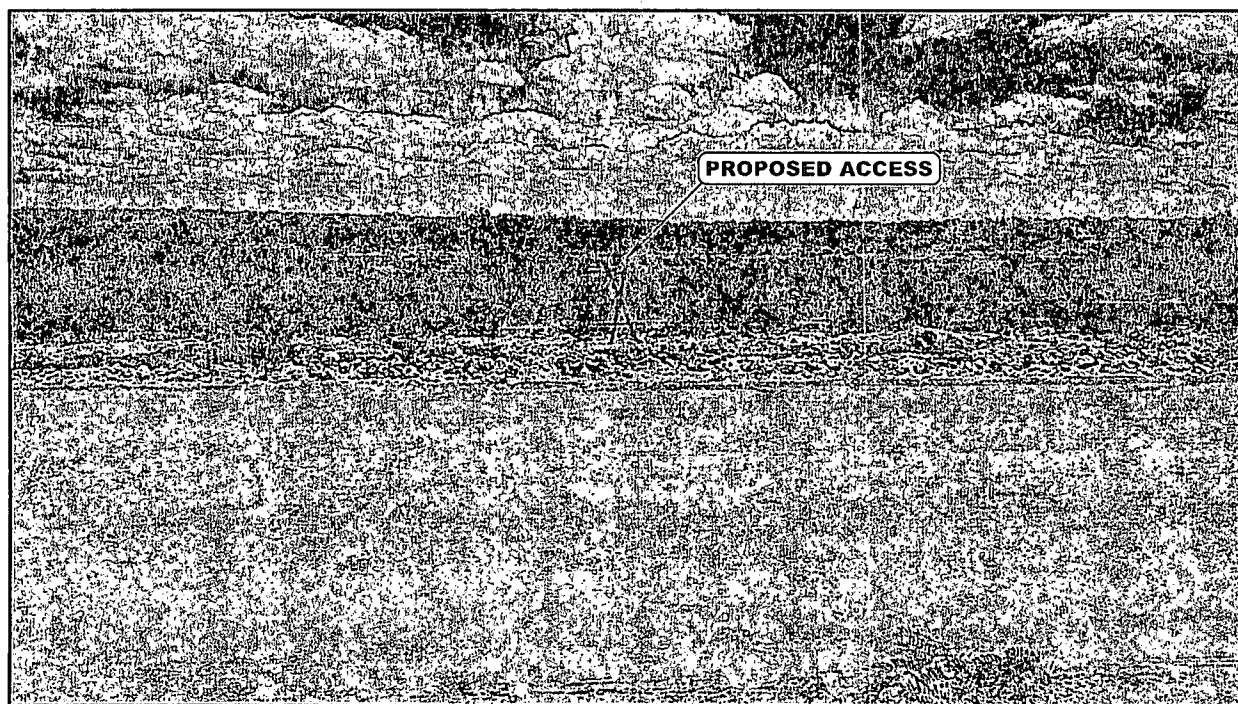


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHERLY

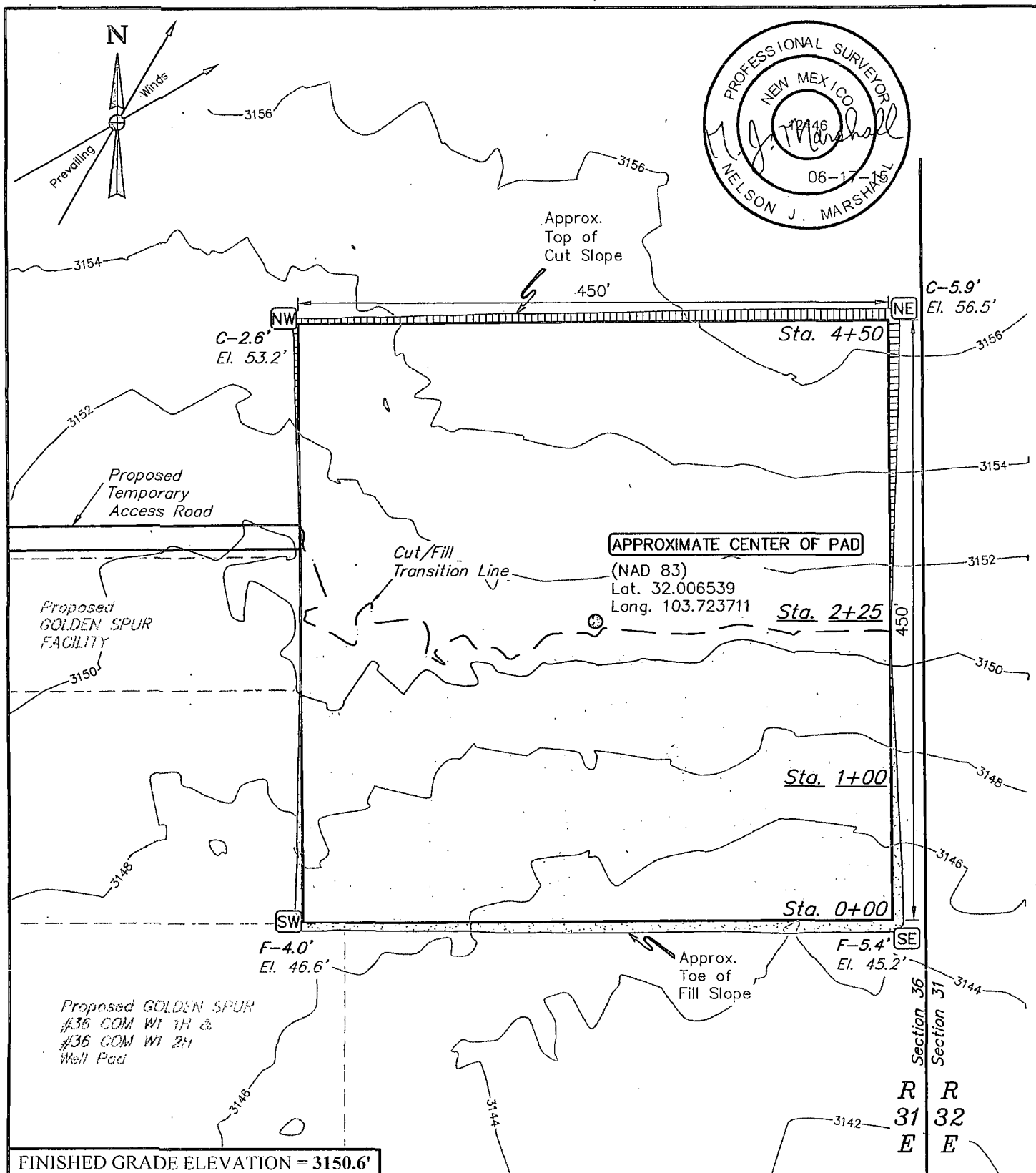
ConocoPhillips Company

**GOLDEN SPUR 36 COM W1 1H & W1 2H
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO**

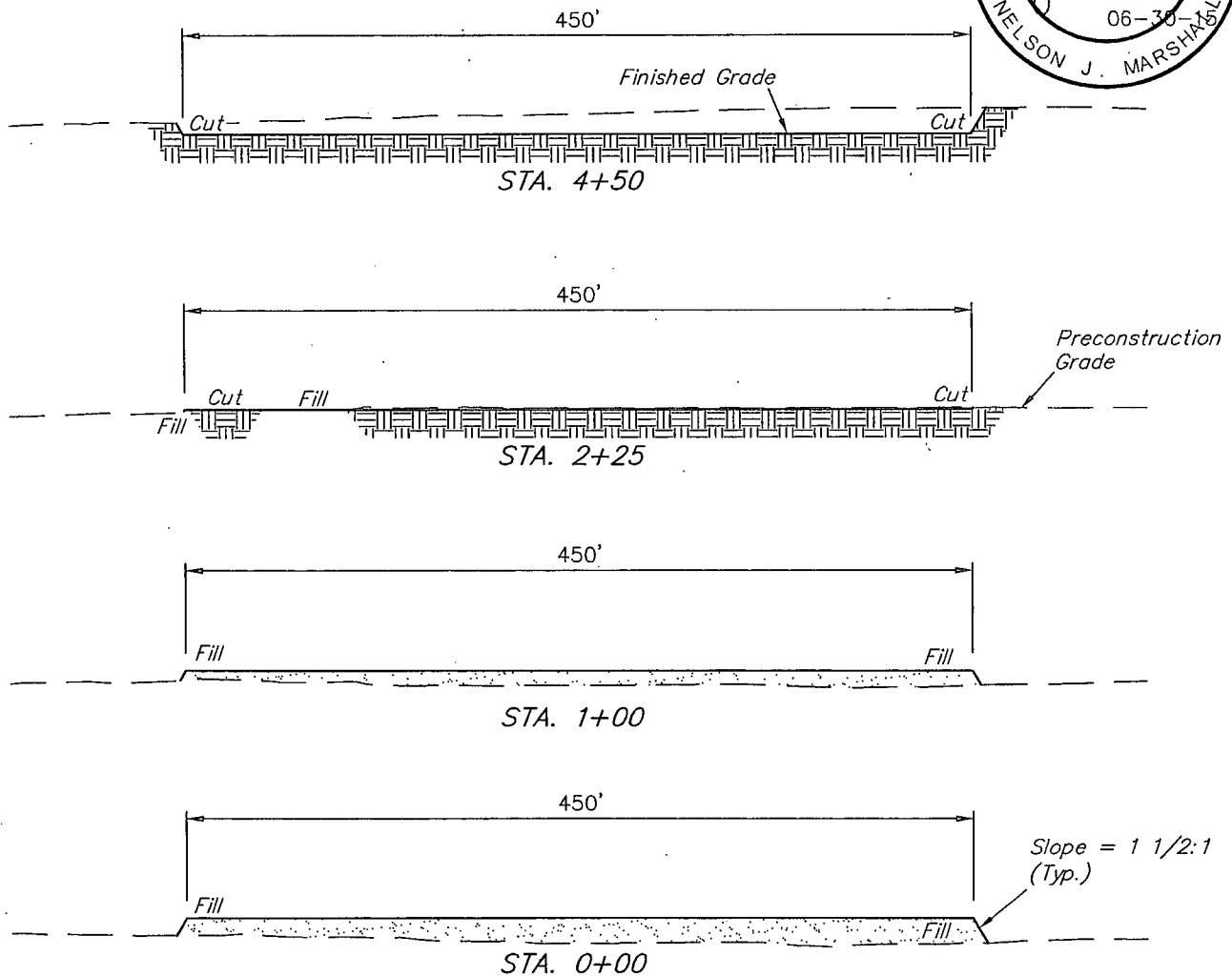
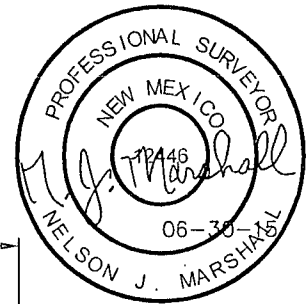


UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

DRAWN BY: C.B.	DATE DRAWN: 12-2-2014
TAKEN BY: J.V.	REVISED: 05-12-15 R.C.
LOCATION PHOTOS	PHOTO



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



APPROXIMATE EARTHWORK QUANTITIES

NO TOPSOIL STRIPPING	0 Cu. Yds.
REMAINING LOCATION	10,730 Cu. Yds.
TOTAL CUT	10,730 Cu. Yds.
FILL	11,090 Cu. Yds.
DEFICIT MATERIAL	<360> Cu. Yds.
TOPSOIL	0 Cu. Yds.
DEFFICIT UNBALANCE (After Interim Rehabilitation)	<360> Cu. Yds.

APPROXIMATE SURFACE DISTURBANCE AREAS

	DISTANCE	ACRES
TANK BATTERY SITE DISTURBANCE	NA	±4.879
TEMPORARY ACCESS ROAD R-O-W DISTURBANCE	±460.05'	±0.317
PIPELINE R-O-W DISTURBANCE	±1,811.31'	±1.463
POWER LINE R-O-W DISTURBANCE	±474.06'	±0.326
TOTAL SURFACE USE AREA		±6.985

NOTES:

- Fill quantity includes 5% for compaction.
- Deficit material to be obtained from approved borrow area.

ConocoPhillips Company

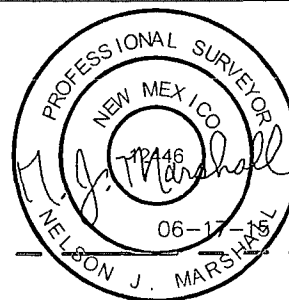
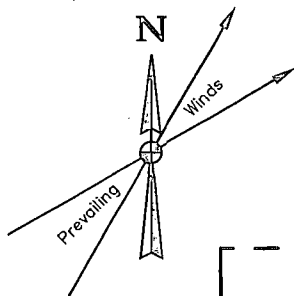
**RED HILLS CENTRAL FACILITY WEST B
LOT 1,
SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO.**



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

DRAWN BY: H.W.	DATE DRAWN: 06-08-15
SCALE: AS SHOWN	REVISED: 06-30-15 B.D.H.

TYPICAL CROSS SECTIONS | FIGURE #2



Proposed
Temporary
Access Road

Proposed
GOLDEN SPUR
FACILITY

APPROXIMATE CENTER OF PAD

650' x 650' Archaeological
Survey Boundary

Proposed GOLDEN SPUR
#36 COM W/ 1H &
#36 COM W/ 2H
Well Pad

Section 36
Section 31

R R
31 32
E E

NOTES:

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RED HILLS CENTRAL FACILITY WEST B

LOT 1,

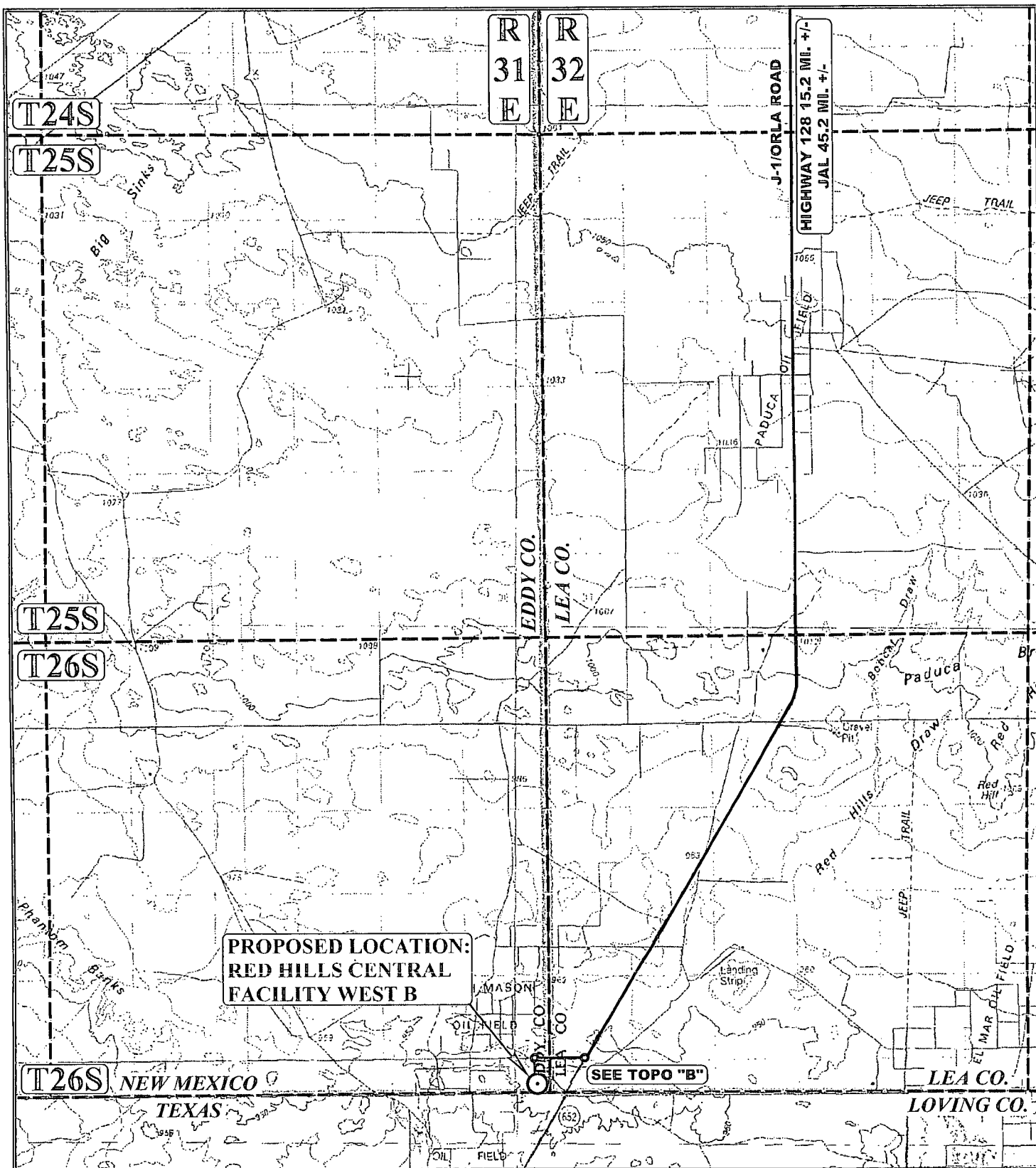
SECTION 36, T26S, R31E, N.M.P.M.

EDDY COUNTY, NEW MEXICO



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Vernal, UT 84078 * (435) 789-1017

DRAWN BY: H.W.	DATE DRAWN: 06-08-15
SCALE: 1" = 100'	REVISED: 00-00-00
ARCHAEOLOGICAL SURVEY BOUNDARY	
FIGURE #5	



LEGEND:

○ PROPOSED LOCATION

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**RED HILLS CENTRAL FACILITY WEST B
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO**

DRAWN BY: R.C.

DATE DRAWN: 06-12-15

SCALE: 1:100,000

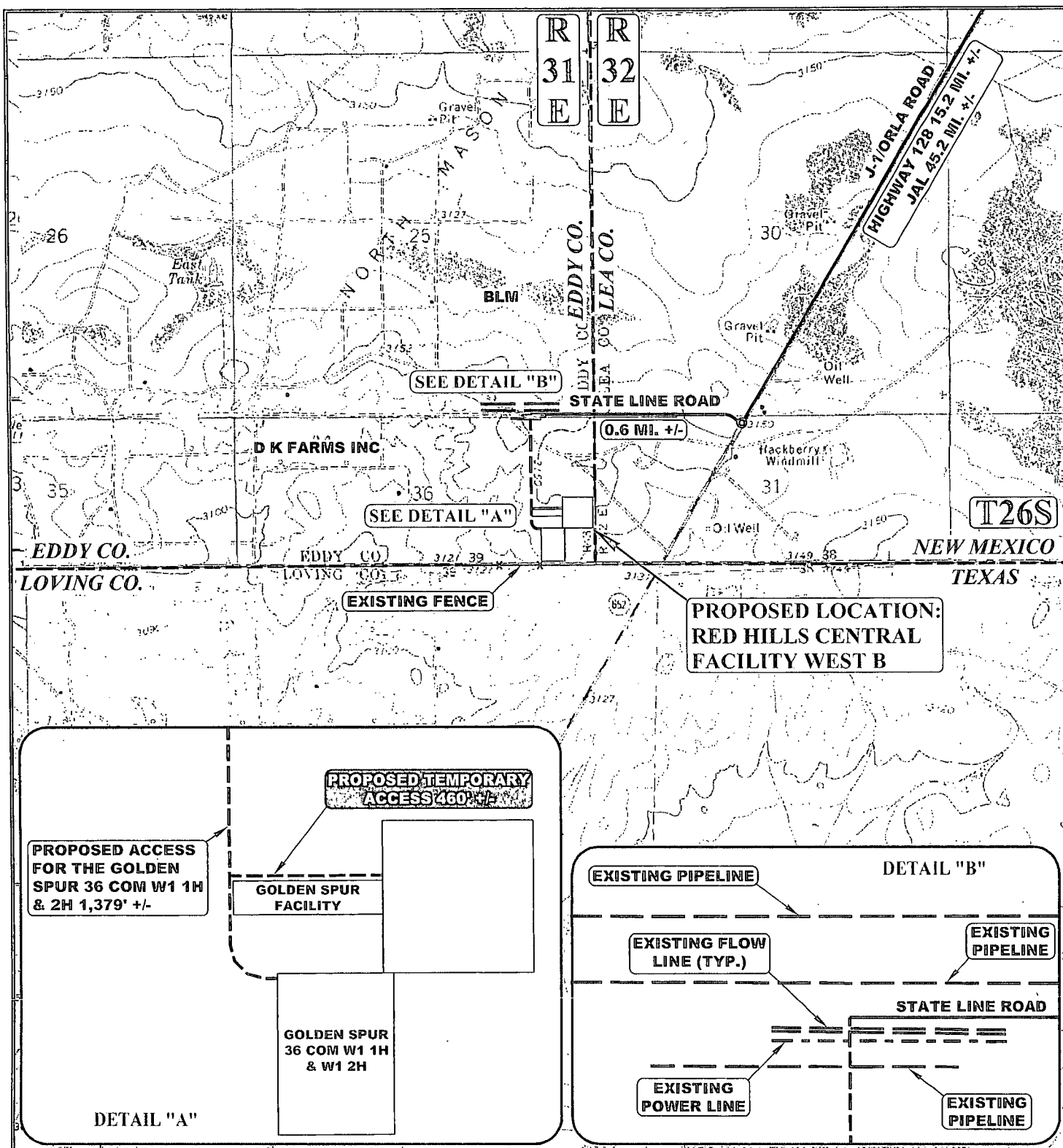
REVISED: 00-00-00

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 UTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- - - PROPOSED ROAD
- * - * - EXISTING FENCE
- - - - - EXISTING POWER LINE
- - - - - EXISTING PIPELINE

ConocoPhillips Company

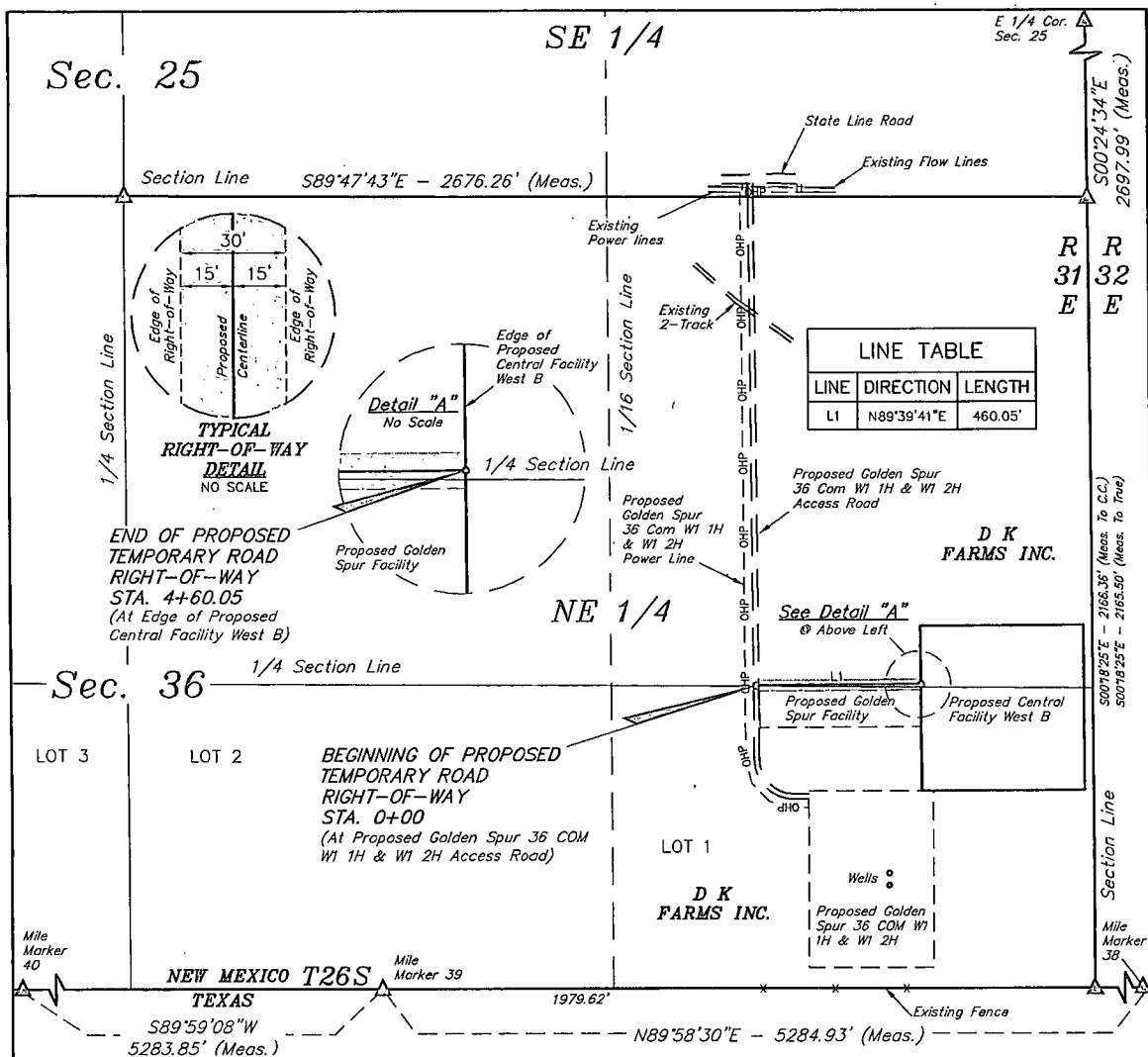
RED HILLS CENTRAL FACILITY WEST B
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

U.T.A.H.
ENGINEERING & LAND SURVEYING

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

N

DRAWN BY: R.C.	DATE DRAWN: 06-12-15
SCALE: 1" = 2000'	REVISED: 00-00-00
ACCESS ROAD MAP	TOPO D



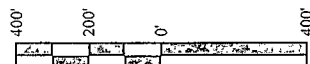
TEMPORARY ROAD RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NE 1/4 NE 1/4 OF SECTION 36, T26S, R31E, N.M.P.M., WHICH BEARS S34°45'17\"W 1628.41' FROM THE NORTHEAST CORNER OF SAID SECTION 36, THENCE N89°39'41\"E 460.05' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 36, WHICH BEARS S19°19'34\"W 1414.92' FROM THE NORTHEAST CORNER OF SAID SECTION 36. 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 0.317 ACRES MORE OR LESS.

BEGINNING OF TEMPORARY ROAD STA. 0+00 BEARS S34°45'17\"W 1628.41' FROM THE NORTHEAST CORNER OF SECTION 36, T26S, R31E, N.M.P.M.

END OF TEMPORARY ROAD STA. 4+60.05 BEARS S19°19'34\"W 1414.92' FROM THE NORTHEAST CORNER OF SECTION 36, T26S, R31E, N.M.P.M.



ACREAGE / LENGTH TABLE

	OWNERSHIP	FEET	RODS	ACRES
TEMP. ACCESS ROAD	D K FARMS INC.	460.05	27.88	0.317

Δ = SECTION CORNERS LOCATED.

NOTES:

- The maximum grade of existing ground for the proposed access road is ±0.2%.

CERTIFICATE
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
06-17-15

ConocoPhillips Company

RED HILLS CENTRAL FACILITY WEST B
SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DRAWN BY: T.E.	DATE DRAWN: 06-16-15
SCALE: 1" = 400'	REVISED: 00-00-00
TEMPORARY ACCESS ROAD R-O-W	



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

BEGINNING AT THE INTERSECTION OF HIGHWAY 18 AND HIGHWAY 128 PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION FROM JAL, NEW MEXICO ALONG HIGHWAY 128 APPROXIMATELY 30.0 MILES TO THE JUNCTION OF THIS ROAD AND J-1/ORLA ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 15.2 MILES TO THE JUNCTION OF THIS ROAD AND STATE LINE ROAD TO THE EAST; TURN RIGHT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE GOLDEN SPUR 36 COM W1 1H & 2H WELL PAD TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 1,379' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 460' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 46.1 MILES.

ConocoPhillips Company

**RED HILLS CENTRAL FACILITY WEST B
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO**



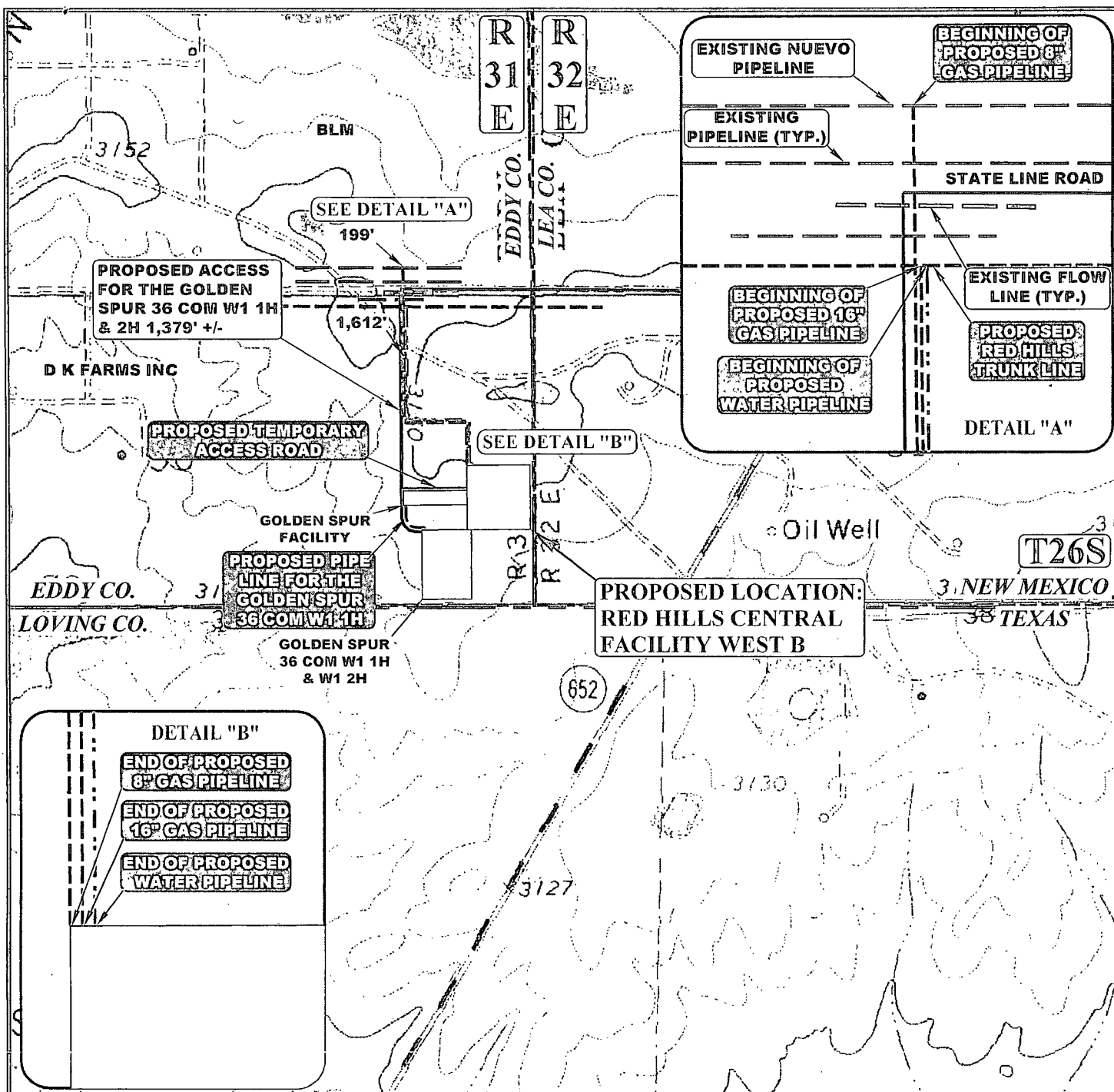
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Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

DRAWN BY: R.C.

DATE DRAWN: 06-12-15

REVISED: 00-00-00

ROAD DESCRIPTION



APPROXIMATE TOTAL WATER PIPELINE DISTANCE = 1,537' +/-

APPROXIMATE TOTAL 16" GAS PIPELINE DISTANCE = 1,537' +/-

APPROXIMATE TOTAL 8" GAS PIPELINE DISTANCE = 1,811' +/-

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 UTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

	EXISTING ROAD
	PROPOSED ROAD
	PROPOSED WATER LINE
	PROPOSED 8" PIPELINE
	PROPOSED 16" PIPELINE
	EXISTING PIPELINE
	PROPOSED PIPELINE (SERVICING OTHER WELLS)

ConocoPhillips Company

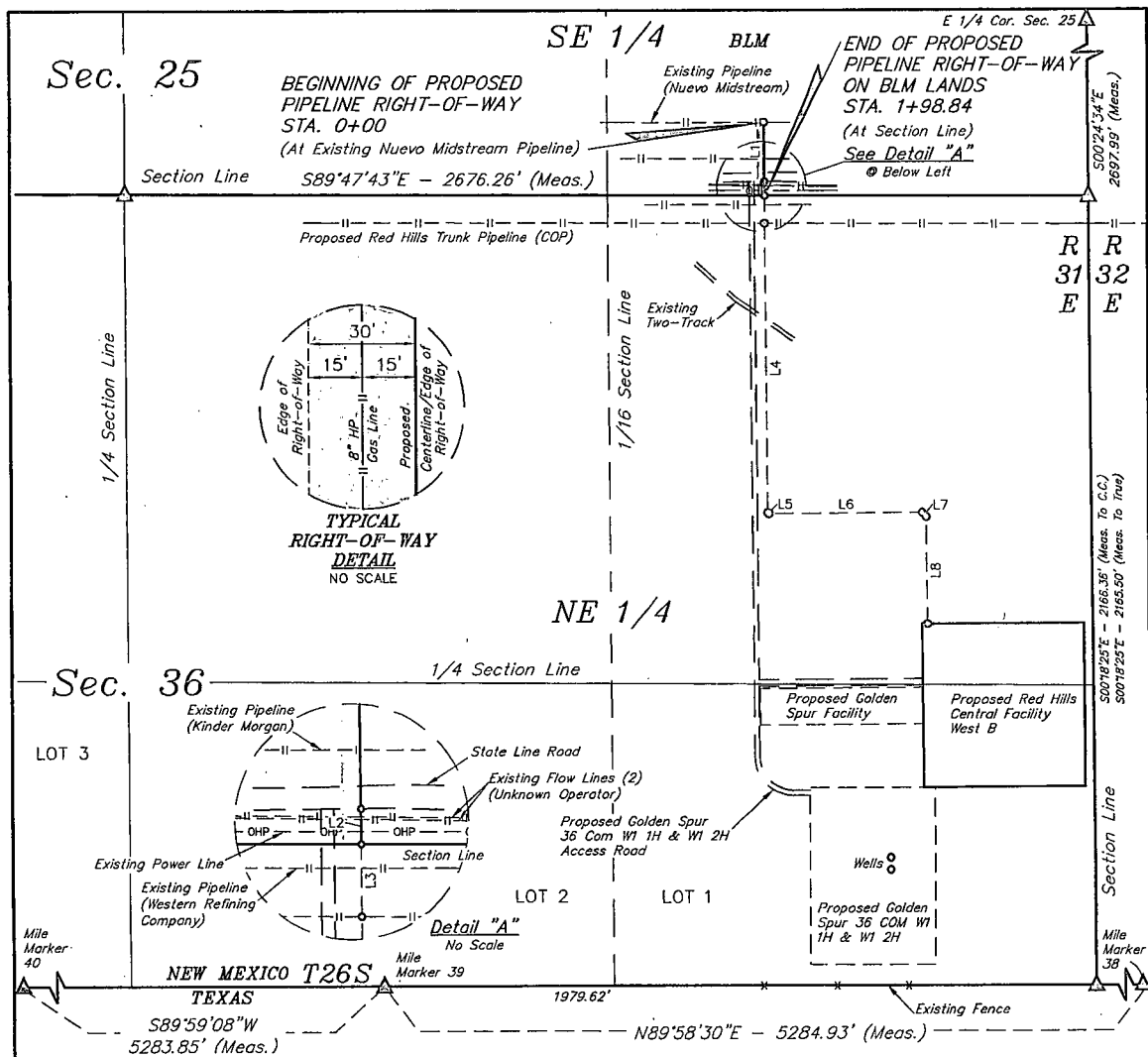
**RED HILLS CENTRAL FACILITY WEST B
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO**



DRAWN BY: R.C.	DATE DRAWN: 06-12-15
SCALE: 1" = 1000'	REVISED: 07-28-15 B.D.H.
PIPELINE MAP	TOPO D



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



PIPELINE RIGHT-OF-WAY DESCRIPTION ON BLM LANDS

BEGINNING AT A POINT IN THE SE 1/4 SE 1/4 SECTION 25, T26S, R31E, N.M.P.M., WHICH BEARS N77°23'19"W 925.44' FROM THE SOUTHEAST CORNER OF SAID SECTION 25, THENCE A 30' WIDE RIGHT-OF-WAY BEING 30' ON THE RIGHT SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, S00°21'53"E 161.47'; THENCE S00°21'53"E 37.37' TO A POINT ON THE SOUTH LINE OF THE SE 1/4 SE 1/4 OF SAID SECTION 25, WHICH BEARS N89°47'43"W 901.85' FROM THE SOUTHEAST CORNER OF SAID SECTION 25. 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 0.137 ACRES MORE OR LESS.

BEGINNING OF PIPELINE STA. 0+00 BEARS N77°23'19"W 925.44' FROM THE SOUTHEAST CORNER OF SECTION 25, T26S, R31E, N.M.P.M.

END OF PIPELINE ON BLM LANDS STA. 1+98.84 BEARS N89°47'43"W 901.85' FROM THE SOUTHEAST CORNER OF SECTION 25, T26S, R31E, N.M.P.M.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°21'53"E	161.47'
L2	S00°21'53"E	37.37'

ACREAGE / LENGTH TABLE				
	OWNERSHIP	FEET	RODS	ACRES
PIPELINE	BLM	198.84	12.05	0.137

Δ = SECTION CORNERS LOCATED.

NOTES:

CERTIFICATE OF PROFESSIONAL SURVEYOR
 THIS IS TO CERTIFY THAT THE ABOVE MAP 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.
 Nelson Marshall
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 12446
 STATE OF NEW MEXICO
 06-30-15



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



ConocoPhillips Company

RED HILLS CENTRAL FACILITY WEST B
 SECTION 25, T26S, R31E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

DRAWN BY: T.E.	DATE DRAWN: 06-16-15
SCALE: 1" = 400'	REVISED: 06-30-15 B.D.H.

PIPELINE ROW

Sec. 25

SE 1/4

E 1/4 Cor. Sec. 25
BEGINNING OF PROPOSED
PIPELINE RIGHT-OF-WAY
ON D K FARMS INC. LANDS
STA. 1+98.84
(At Section Line)

Section Line S89°47'43"E - 2676.26' (Meas.)

Proposed Red Hills Trunk Pipeline (COP) Existing Flow Lines (2) (Unknown Operator)
Existing Power Line

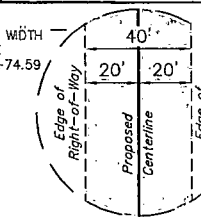
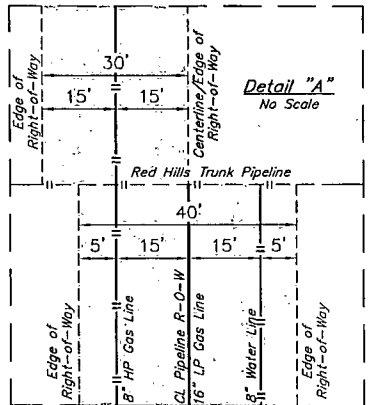
Existing Pipeline (Kinder Morgan)

Existing Pipeline (Nuevo Midstream)

Buried Pipeline (Western Refining Company)

See Detail "A" @ Left

R-O-W WIDTH CHANGE STA. 2+74.59



TYPICAL
RIGHT-OF-WAY DETAIL
STA. 2+74.59 To 18+11.31
NO SCALE

D K FARMS INC.

NE 1/4

Sec. 36

END OF PROPOSED
PIPELINE RIGHT-OF-WAY
STA. 18+11.31
(At Edge of Proposed
Red Hills Central Facility West B)

LINE TABLE		
LINE	DIRECTION	LENGTH
L3	S00°21'53"E	75.75'
L4	S00°21'53"E	797.29'
L5	S45°51'08"E	4.22'
L6	N89°39'43"E	425.70'
L7	S45°19'36"E	16.43'
L8	S00°19'53"E	293.08'

NEW MEXICO T26S
TEXAS

S89°59'08"W
5283.85' (Meas.)

1979.62'

N89°58'30"E - 5284.93' (Meas.)

Existing Fence

PIPELINE RIGHT-OF-WAY DESCRIPTION ON D K FARMS INC. LANDS

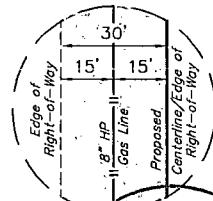
BEGINNING AT A POINT ON THE NORTH LINE OF THE NE 1/4 NE 1/4 OF SECTION 36, T26S, R31E, N.M.P.M., WHICH BEARS N89°47'43"W 901.85' FROM THE NORTHEAST CORNER OF SAID SECTION 36, THENCE A 30' WIDE RIGHT-OF-WAY BEING 30' ON THE RIGHT SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, THENCE S00°21'53"E 75.75' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 36 WHICH BEARS S85°23'58"W 904.27' FROM THE NORTHEAST CORNER OF SAID SECTION 36, THENCE A 40' WIDE RIGHT-OF-WAY, 20' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, THENCE S00°21'53"E 797.29', THENCE S45°51'08"E 4.22'; THENCE N89°39'43"E 425.70'; THENCE S45°19'36"E 16.43'; THENCE S00°19'53"E 293.08' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 36, WHICH BEARS S21°08'09"W 1259.59' FROM THE NORTHEAST CORNER OF SAID SECTION 36. 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 1.463 ACRES MORE OR LESS.

BEGINNING OF PIPELINE ON D K FARMS INC. LANDS STA. 1+98.84
BEARS N89°47'43"W 901.85' FROM THE NORTHEAST CORNER OF
SECTION 36, T26S, R31E, N.M.P.M.

R-O-W WIDTH CHANGE STA. 2+74.59 BEARS S85°23'58"W 904.27'
FROM THE NORTHEAST CORNER OF SECTION 36, T26S, R31E, N.M.P.M.

END OF PIPELINE STA. 18+11.31 BEARS S21°08'09"W 1259.59' FROM
THE NORTHEAST CORNER OF SECTION 36, T26S, R31E, N.M.P.M.

TYPICAL
RIGHT-OF-WAY DETAIL
STA. 1+98.84 To 2+74.59
NO SCALE



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.
12446
Nelson Marshall
REGISTERED LAND SURVEYOR
REGISTRATION NO. 12446
STATE OF NEW MEXICO
07-28-15

ACREAGE / LENGTH TABLE

	OWNERSHIP	FEET	RODS	ACRES
PIPELINE	D K FARMS INC.	1612.47	97.73	1.463

Δ = SECTION CORNERS LOCATED.

NOTES:

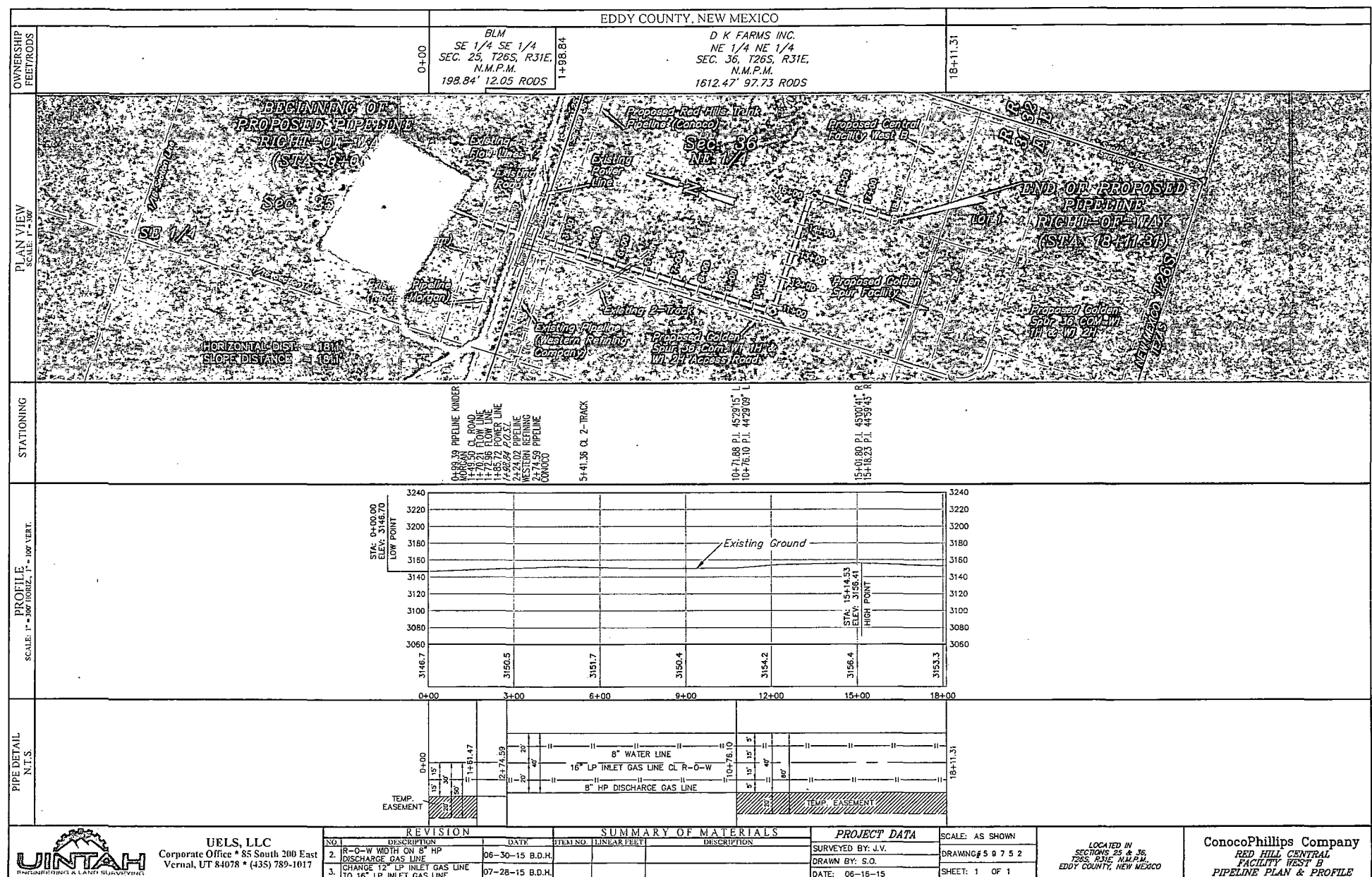
ConocoPhillips Company

RED HILLS CENTRAL FACILITY WEST B
SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



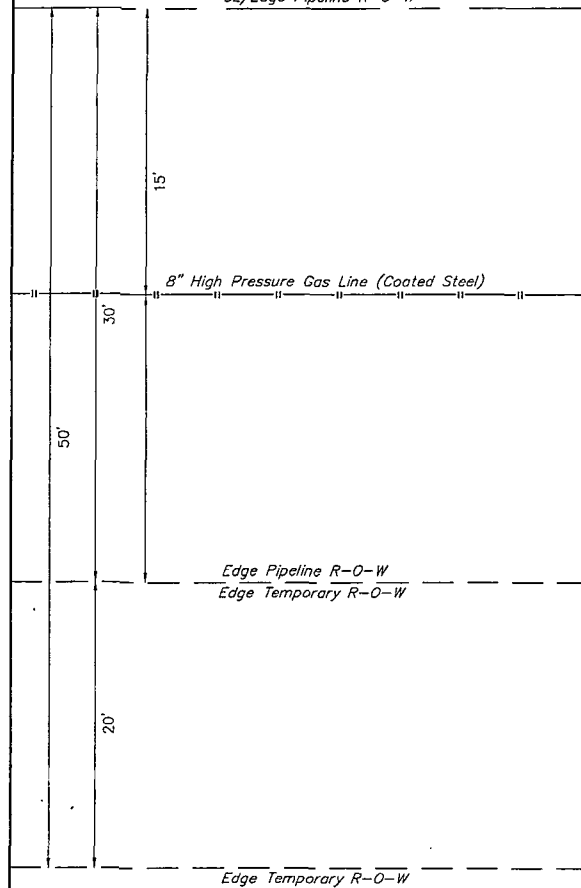
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

DRAWN BY: T.E.	DATE DRAWN: 06-16-15
SCALE: 1" = 400'	REVISED: 07-28-15 B.D.H.
PIPELINE R-O-W	

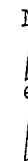
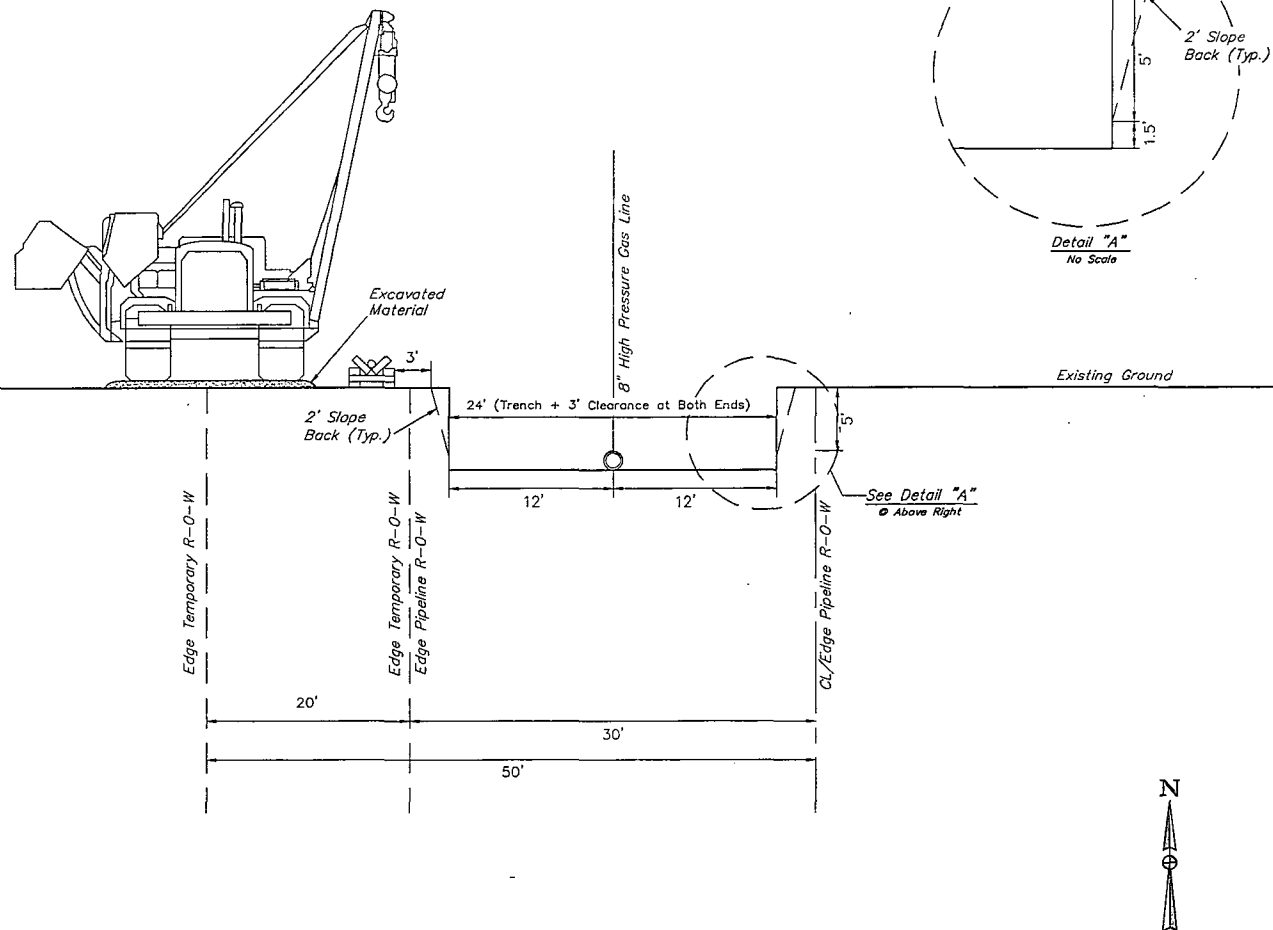


R-O-W Direction

CL/Edge Pipeline R-O-W



STA. 0+00 TO 1+61.47



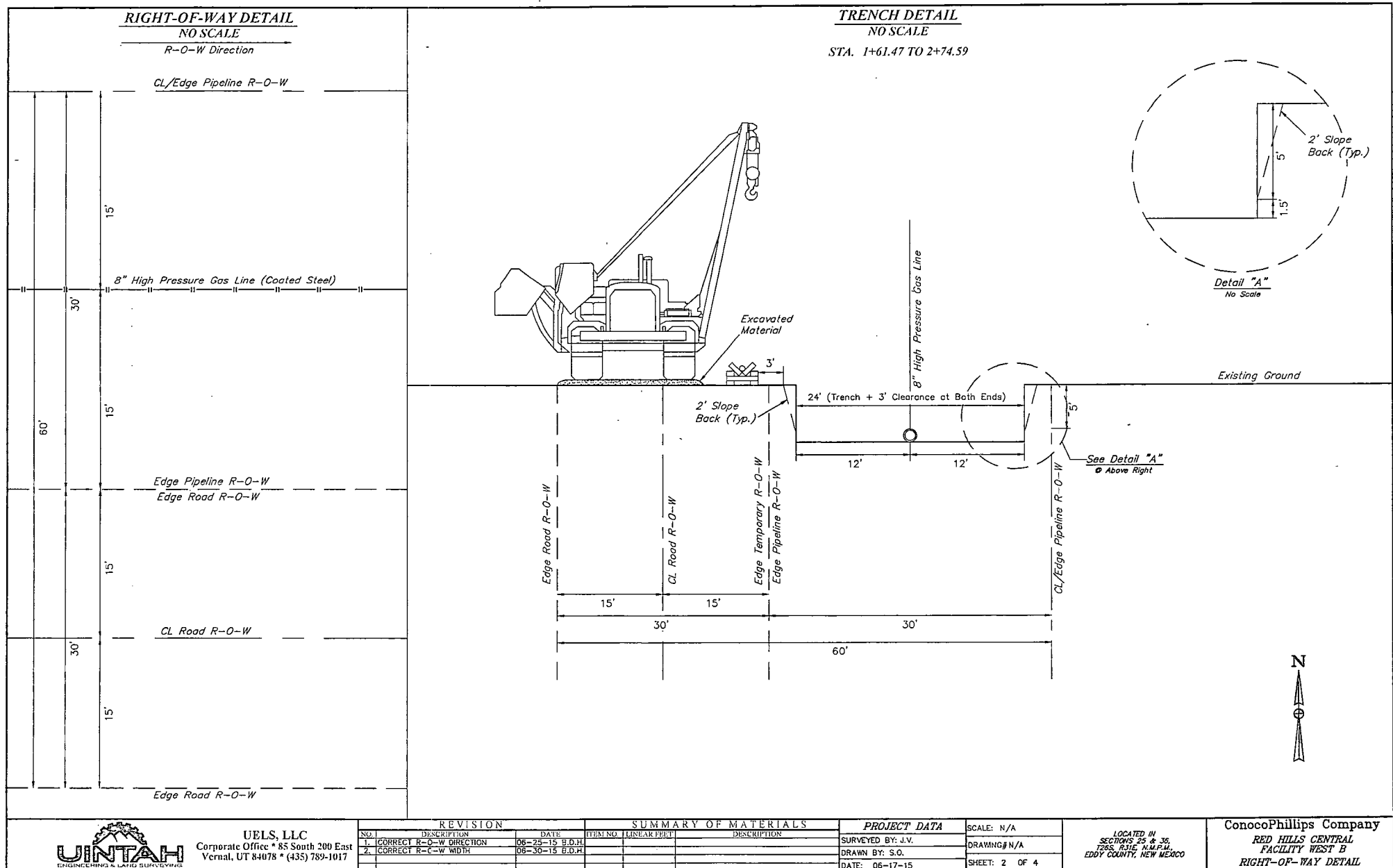
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

REVISION			SUMMARY OF MATERIALS		
NO.	DESCRIPTION	DATE	ITEM NO.	LINEAR FEET	DESCRIPTION
1.	CORRECT R-O-W DIRECTION	06-25-15 B.O.H.			
2.	CORRECT R-O-W WIDTH	06-30-15 B.O.H.			

PROJECT DATA		SCALE: N/A
SURVEYED BY: J.V.		DRAWING# N/A
DRAWN BY: S.O.		SHEET: 1 OF 4
DATE: 06-17-15		

LOCATED IN
SECTIONS 25 & 36,
T26S, R31E, N.M.P.M.,
EDDY COUNTY, NEW MEXICO

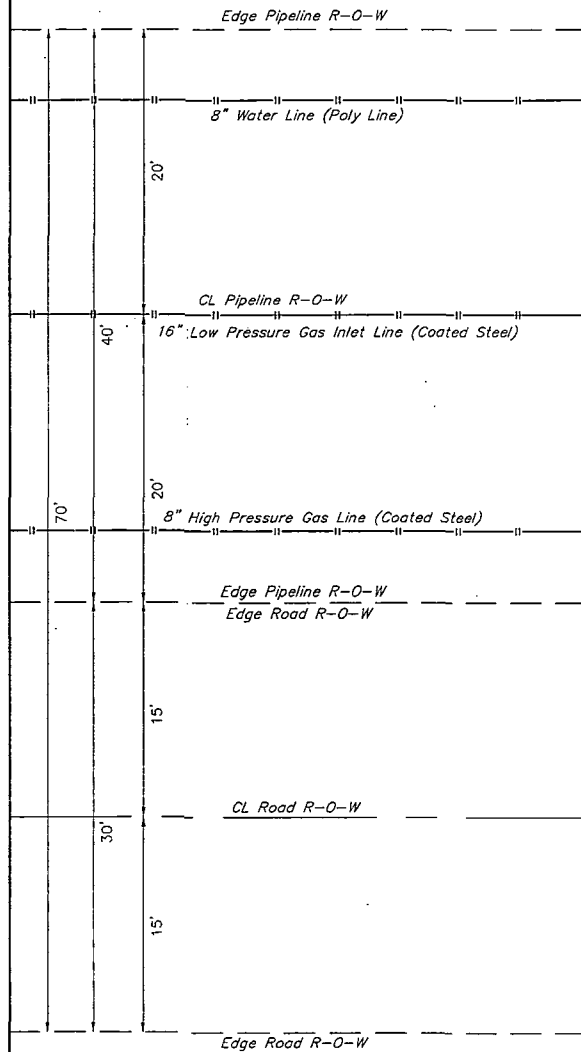
ConocoPhillips Company
RED HILLS CENTRAL
FACILITY WEST B
RIGHT-OF-WAY DETAIL



RIGHT-OF-WAY DETAIL

NO SCALE

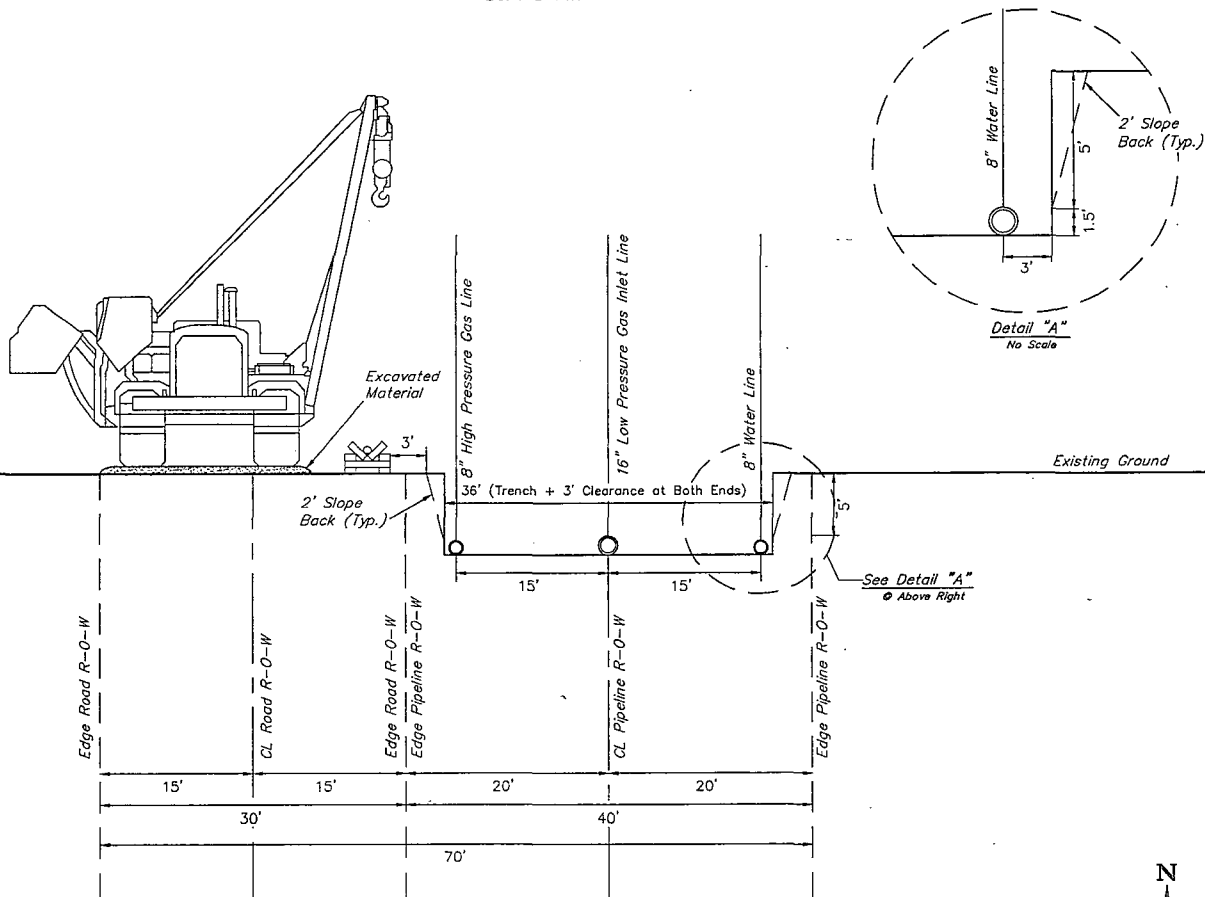
R-O-W Direction



TRENCH DETAIL

NO SCALE

STA. 2+74.59 TO 10+76.10



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REVISION			SUMMARY OF MATERIALS	
NO.	DESCRIPTION	DATE	ITEM NO.	LINEAR FEET
1.	CORRECT R-O-W DIRECTION	06-25-15 B.D.H.		
2.	CHANGE 12" LP GAS INLET TO 16"	07-28-15 B.D.H.		

PROJECT DATA

SURVEYED BY: J.V.
DRAWN BY: S.O.
DATE: 06-17-15

SCALE: N/A

DRAWING# N/A

SHEET: 3 OF 4

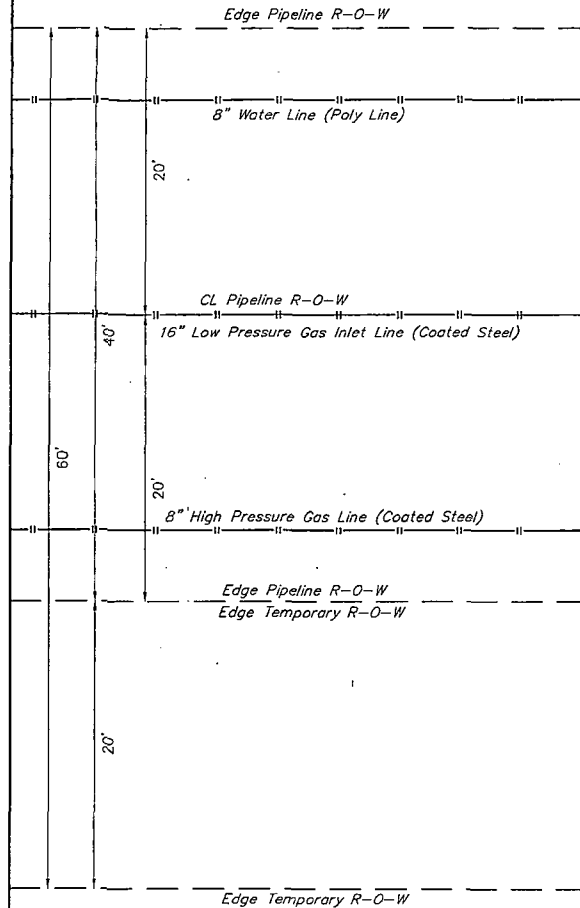
LOCATED IN
SECTIONS 25 & 36,
T26S, R31E, N4M.P.M.
EDDY COUNTY, NEW MEXICO

ConocoPhillips Company
RED HILLS CENTRAL
FACILITY WEST B
RIGHT-OF-WAY DETAIL

RIGHT-OF-WAY DETAIL

NO SCALE

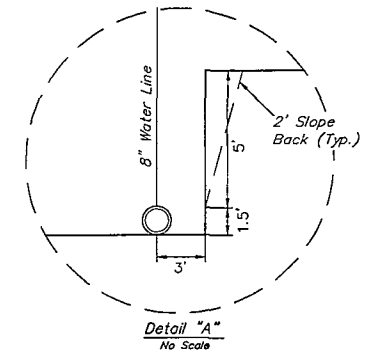
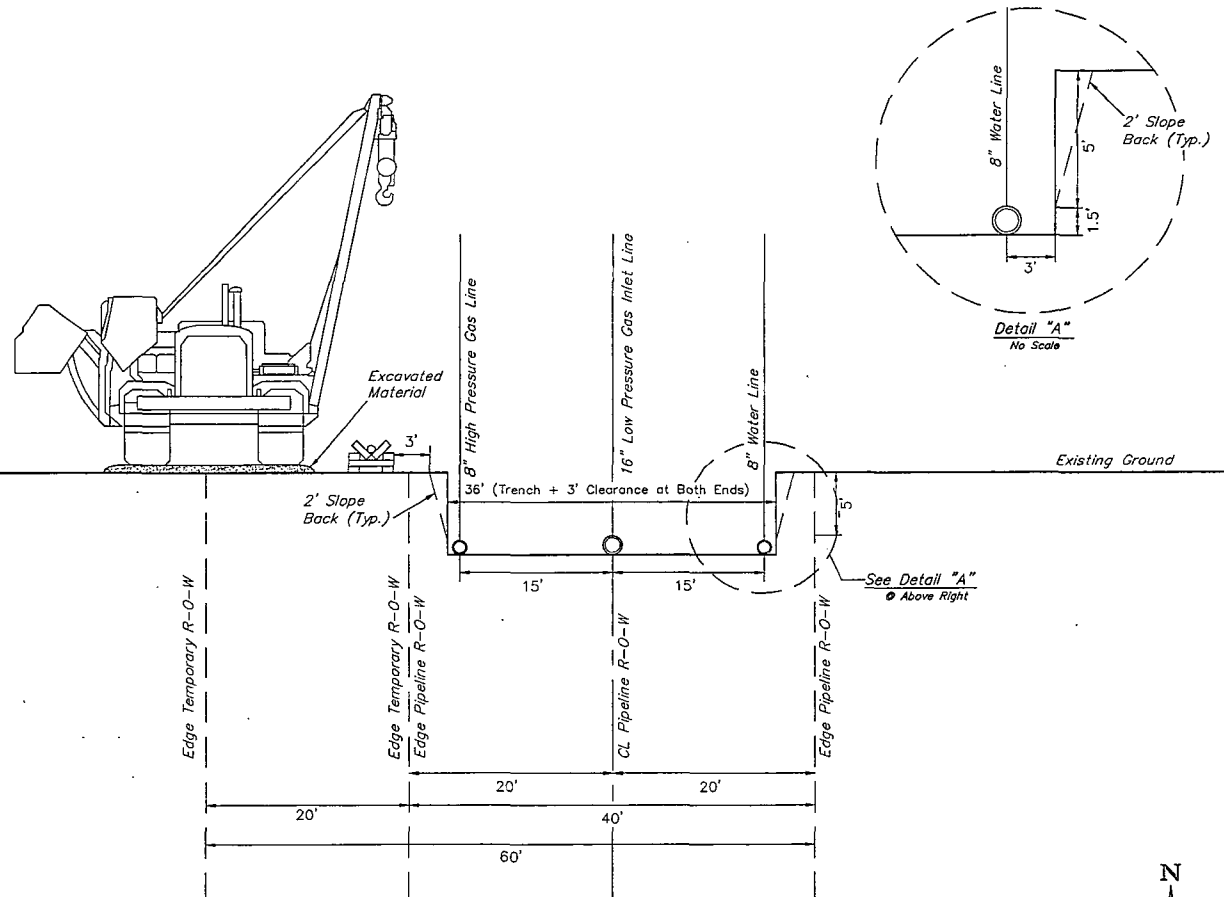
R-O-W Direction



TRENCH DETAIL

NO SCALE

STA. 10+76.10 TO 18+11.31



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REVISION		DATE
NO.	DESCRIPTION	
1.	CORRECT R-O-W DIRECTION	06-25-15 B.O.H.
2.	CHANGE 12" LP GAS INLET TO 16"	07-28-15 B.O.H.

SUMMARY OF MATERIALS	
ITEM NO.	DESCRIPTION
1.	16" LP GAS INLET
2.	8" HP GAS INLET
3.	8" WATER LINE

PROJECT DATA	
SURVEYED BY: J.V.	SCALE: N/A
DRAWN BY: S.O.	DRAWING# N/A
DATE: 06-17-15	SHEET: 4 OF 4

LOCATED IN
SECTIONS 25 & 36,
T20S, R12E, N44PM,
EDDY COUNTY, NEW MEXICO

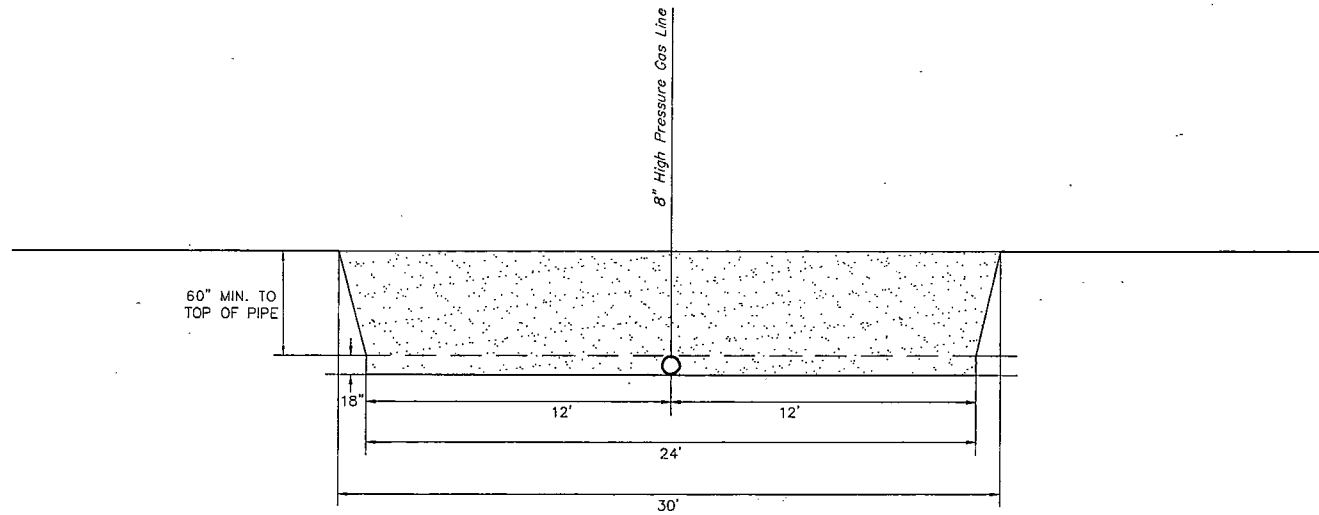
ConocoPhillips Company
RED HILLS CENTRAL
FACILITY WEST B
RIGHT-OF-WAY DETAIL

BACKFILL DIAGRAM

NO SCALE

STA. 0+00 TO 2+74.59

R-O-W Direction



BACKFILL DIRT TO BE AS FREE OF ROCKS AND
LARGE PARTICLES AS POSSIBLE

6" WATER LINE WILL BE POLY LINE

SOFT FILL DIRT OR SAND WITH NO ROCKS OR SOLID
PARTICLES GREATER THAN 1" IN CIRCUMFERENCE

5' CLEARANCE AT BOTH ENDS



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REVISION			SUMMARY OF MATERIALS	
NO.	DESCRIPTION	DATE	ITEM NO.	LINEAR FEET
1.	CORRECT R-O-W WIDTH	06-30-15 P.D.H.		

PROJECT DATA	
SURVEYED BY: J.V.	SCALE: N/A
DRAWN BY: S.O.	DRAWING# N/A
DATE: 06-17-15	SHEET: 1 OF 1

LOCATED IN
SECTIONS 23 & 35
T26S, R31E, N44E, M4
EDDY COUNTY, NEW MEXICO

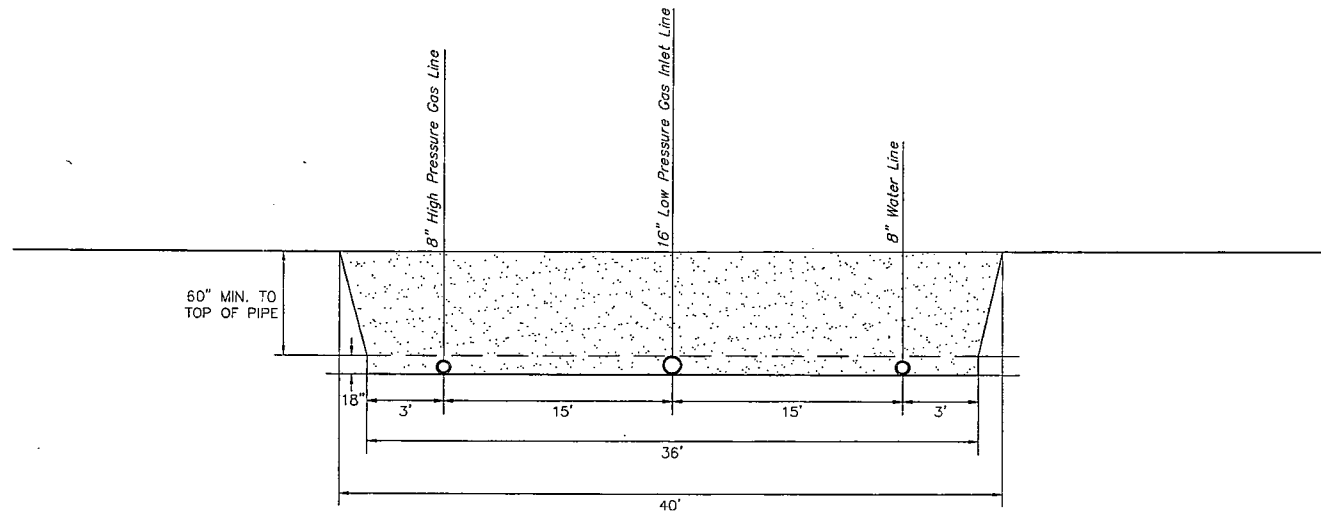
ConocoPhillips Company
RED HILLS CENTRAL
FACILITY WEST B
BACKFILL DIAGRAM

BACKFILL DIAGRAM

NO SCALE

STA. 2+74.59 TO 18+11.31

R-O-W Direction



BACKFILL DIRT TO BE AS FREE OF ROCKS AND
LARGE PARTICLES AS POSSIBLE

8" HIGH PRESSURE GAS LINE WILL BE COATED STEEL

12" LOW PRESSURE GAS INLET LINE WILL BE
COATED STEEL

8" WATER LINE WILL BE POLY LINE

SOFT FILL DIRT OR SAND WITH NO ROCKS OR SOLID
PARTICLES GREATER THAN 1" IN CIRCUMFERENCE

5' CLEARANCE AT BOTH ENDS

15' CLEARANCE BETWEEN EACH PIPE



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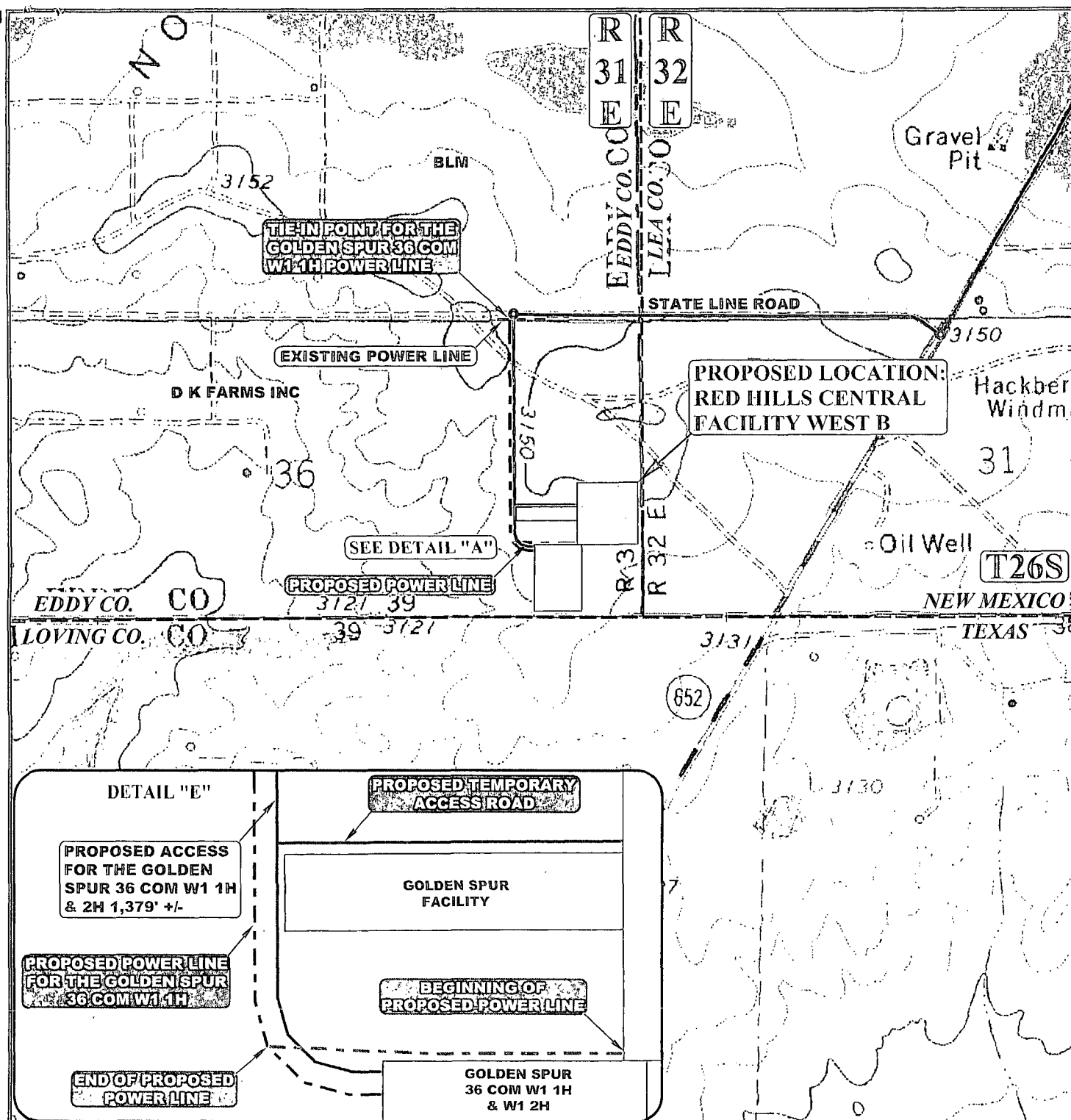
REVISION		DATE
NO.	DESCRIPTION	
1.	CORRECT R-O-W WIDTH	06-30-15 B.D.H.
2.	CHANGE 12" LP GAS INLET TO 16"	07-20-15 B.D.H.

SUMMARY OF MATERIALS	
ITEM NO.	DESCRIPTION
1	
2	
3	

PROJECT DATA	
SURVEYED BY: J.V.	SCALE: N/A
DRAWN BY: S.D.	DRAWING# N/A
DATE: 06-17-15	SHEET: 1 OF 1

LOCATED IN
SECTIONS 25 & 36,
T00S, R11E, N41E, EDDY COUNTY, NEW MEXICO

ConocoPhillips Company
RED HILLS CENTRAL
FACILITY WEST B
BACKFILL DIAGRAM



APPROXIMATE TOTAL POWER LINE DISTANCE = 474' +/-

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
- - - EXISTING POWER LINE
- - - PROPOSED POWER LINE (SERVICING OTHER WELLS)



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ConocoPhillips Company

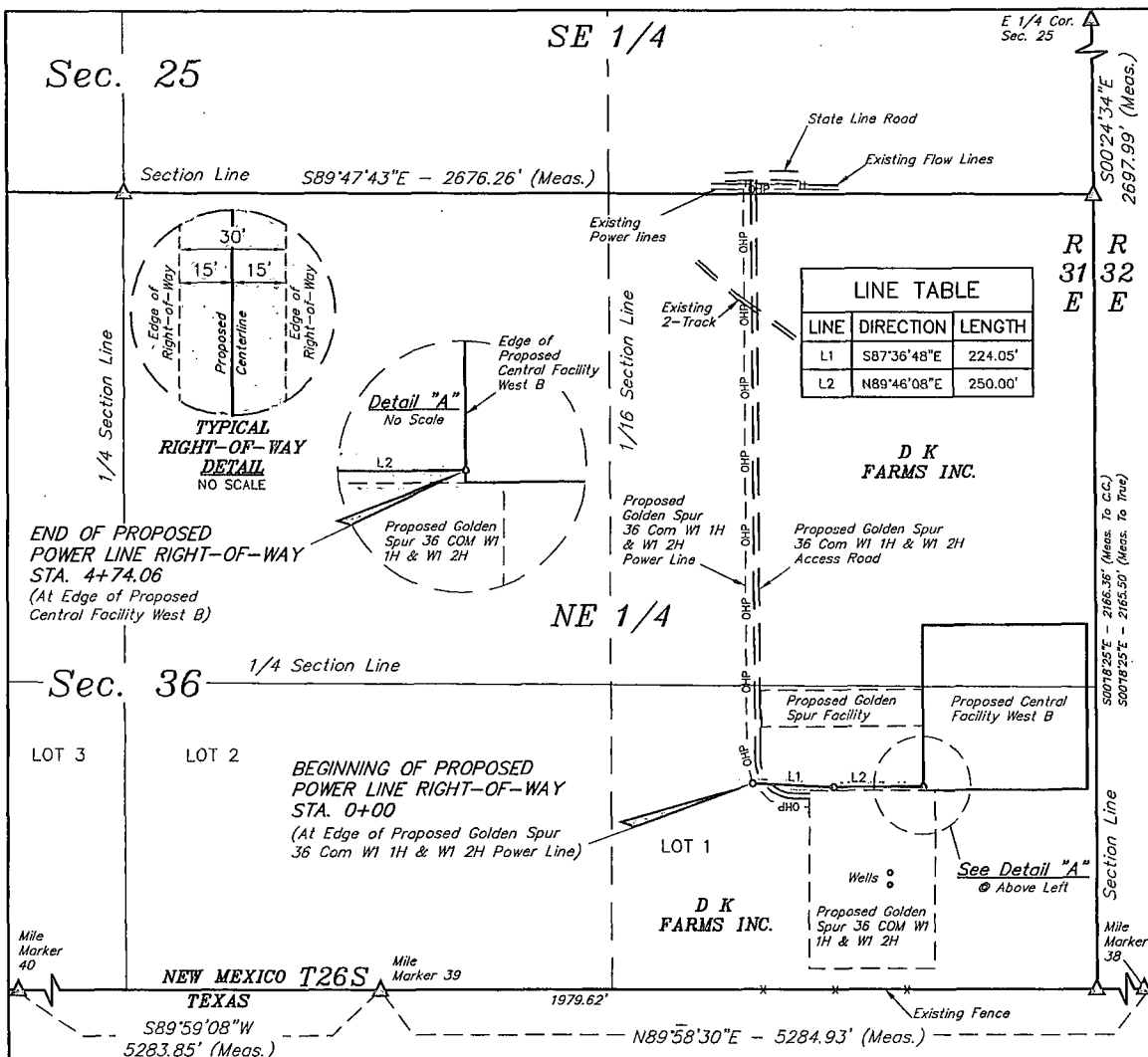
**RED HILLS CENTRAL FACILITY WEST B
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO**

DRAWN BY: R.C.
SCALE: 1" = 1000'

DATE DRAWN: 06-12-15
REVISED: 00-00-00

POWERLINE MAP

TOPO E



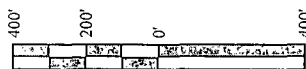
POWER LINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN LOT 1 OF SECTION 36, T26S, R31E, N.M.P.M., WHICH BEARS S30°20'43"W 1861.60' FROM THE NORTHEAST CORNER OF SAID SECTION 36, THENCE S87°36'48"E 224.05'; THENCE N89°46'08"E 250.00' TO A POINT IN LOT 1 OF SAID SECTION 36, WHICH BEARS S16°07'03"W 1680.95' FROM THE NORTHEAST CORNER OF SAID SECTION 36. 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 0.326 ACRES MORE OR LESS.

BEGINNING OF POWER LINE STA. 0+00 BEARS S30°20'43"W 1861.60' FROM THE NORTHEAST CORNER OF SECTION 36, T26S, R31E, N.M.P.M.

END OF POWER LINE STA. 4+74.06 BEARS S16°07'03"W 1680.95' FROM THE NORTHEAST CORNER OF SECTION 36, T26S, R31E, N.M.P.M.



ACREAGE / LENGTH TABLE

	OWNERSHIP	FEET	RODS	ACRES
POWER LINE	D K FARMS INC.	474.06	28.73	0.326

△ = SECTION CORNERS LOCATED.

NOTES:

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
06-17-15

ConocoPhillips Company

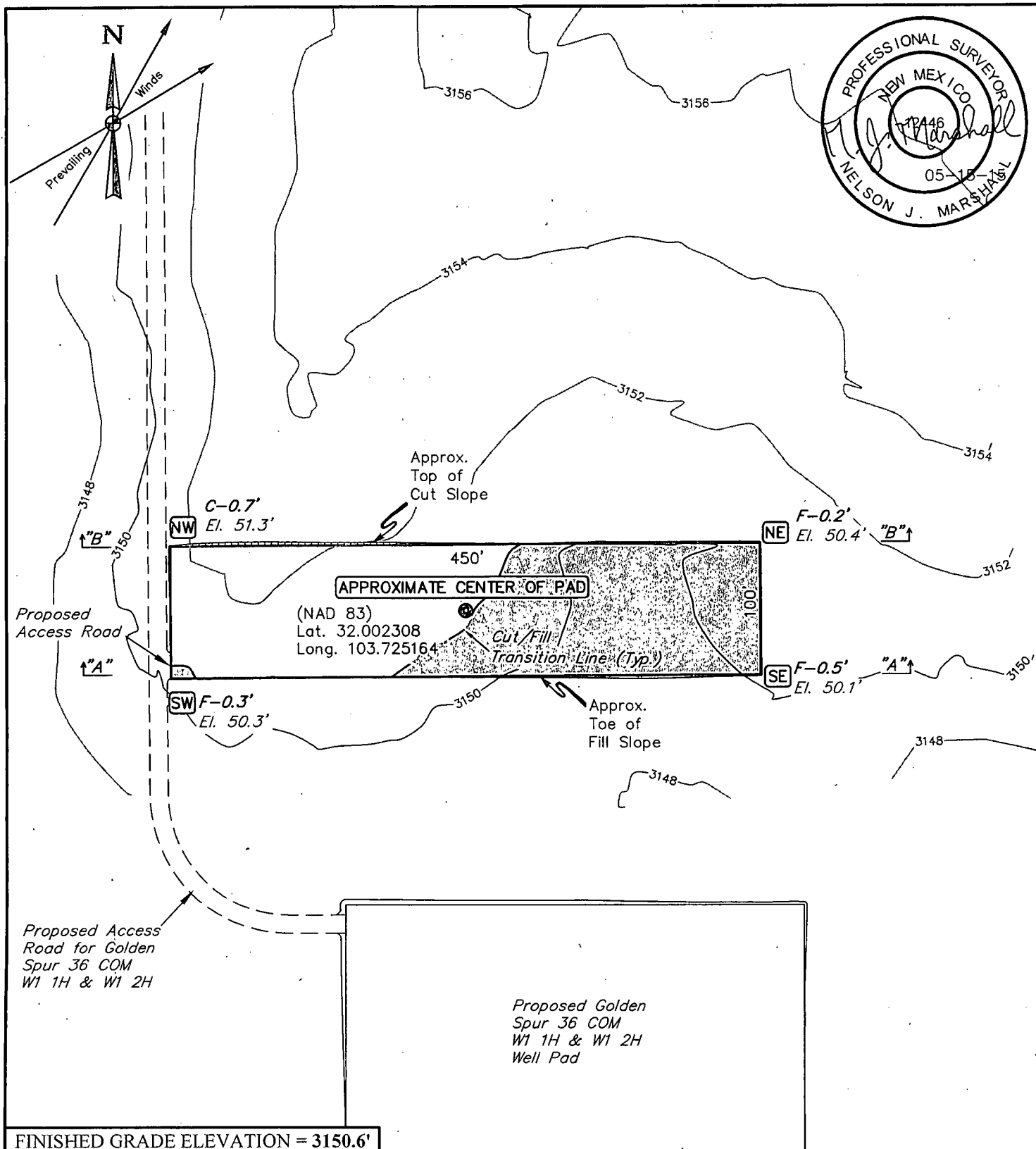
RED HILLS CENTRAL FACILITY WEST B
SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DRAWN BY: T.E. DATE DRAWN: 06-16-15
SCALE: 1" = 400' REVISED: 00-00-00

POWER LINE R-O-W



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NOTES:

- Contours shown at 2' intervals.
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.

ConocoPhillips Company

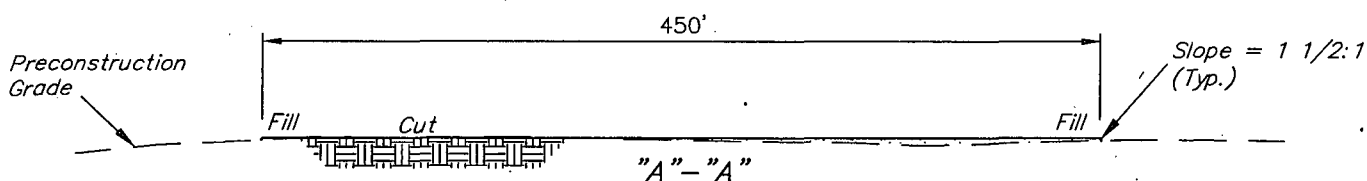
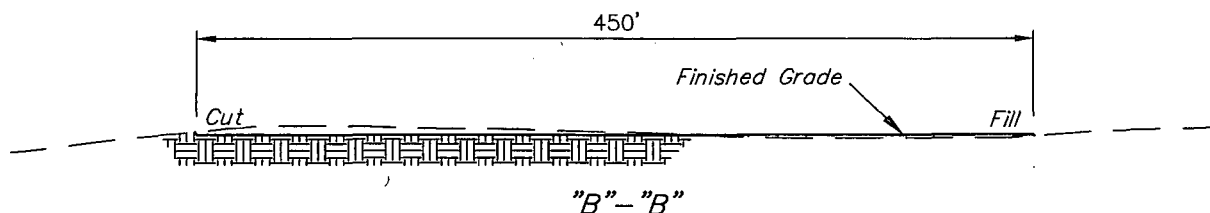
GOLDEN SPUR FACILITY
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DRAWN BY: R.A.	DATE DRAWN: 12-17-14
SCALE: 1" = 100'	REVISED: 05-11-15 H.W.
LOCATION LAYOUT	
FIGURE #1	



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



APPROXIMATE EARTHWORK QUANTITIES	
TOPSOIL STRIPPING	0 Cu. Yds.
REMAINING LOCATION	620 Cu. Yds.
TOTAL CUT	620 Cu. Yds.
FILL	620 Cu. Yds.
EXCESS MATERIAL	0 Cu. Yds.
TOPSOIL	0 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	0 Cu. Yds.

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	ACRES
TANK BATTERY SITE DISTURBANCE	NA	±1.059
POWER LINE ROW DISTURBANCE	40.28'	±0.028
TOTAL SURFACE USE AREA		±1.087

NOTES:

- Fill quantity includes 5% for compaction.
- Calculations based on no topsoil stripping.

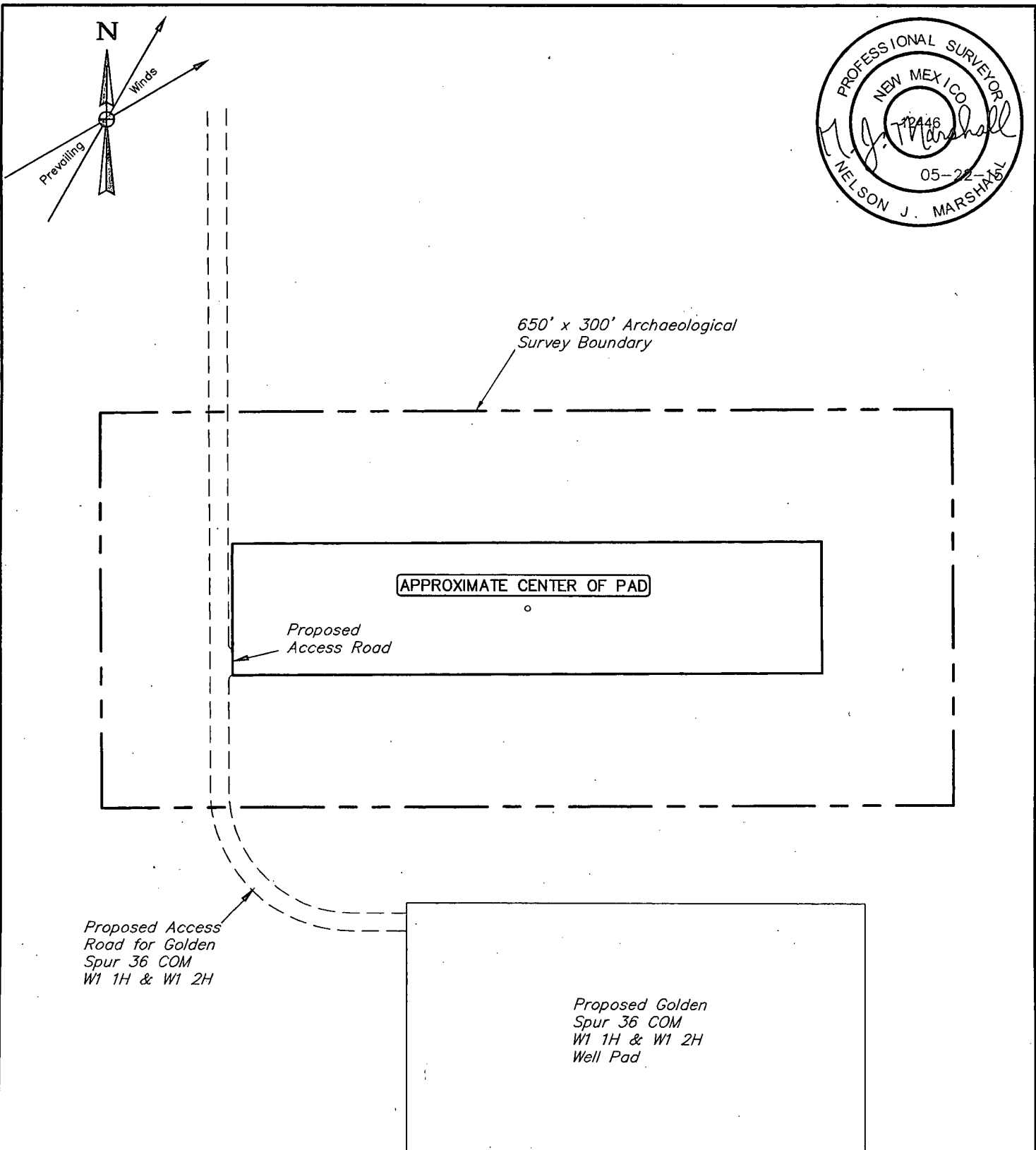
ConocoPhillips Company

GOLDEN SPUR FACILITY
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DRAWN BY: R.A.	DATE DRAWN: 12-17-14
SCALE: AS SHOWN	REVISED: 05-11-15 H.W.
TYPICAL CROSS SECTIONS	
FIGURE #2	



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 Vernal, UT 84078 * (435) 789-1017



NOTES:

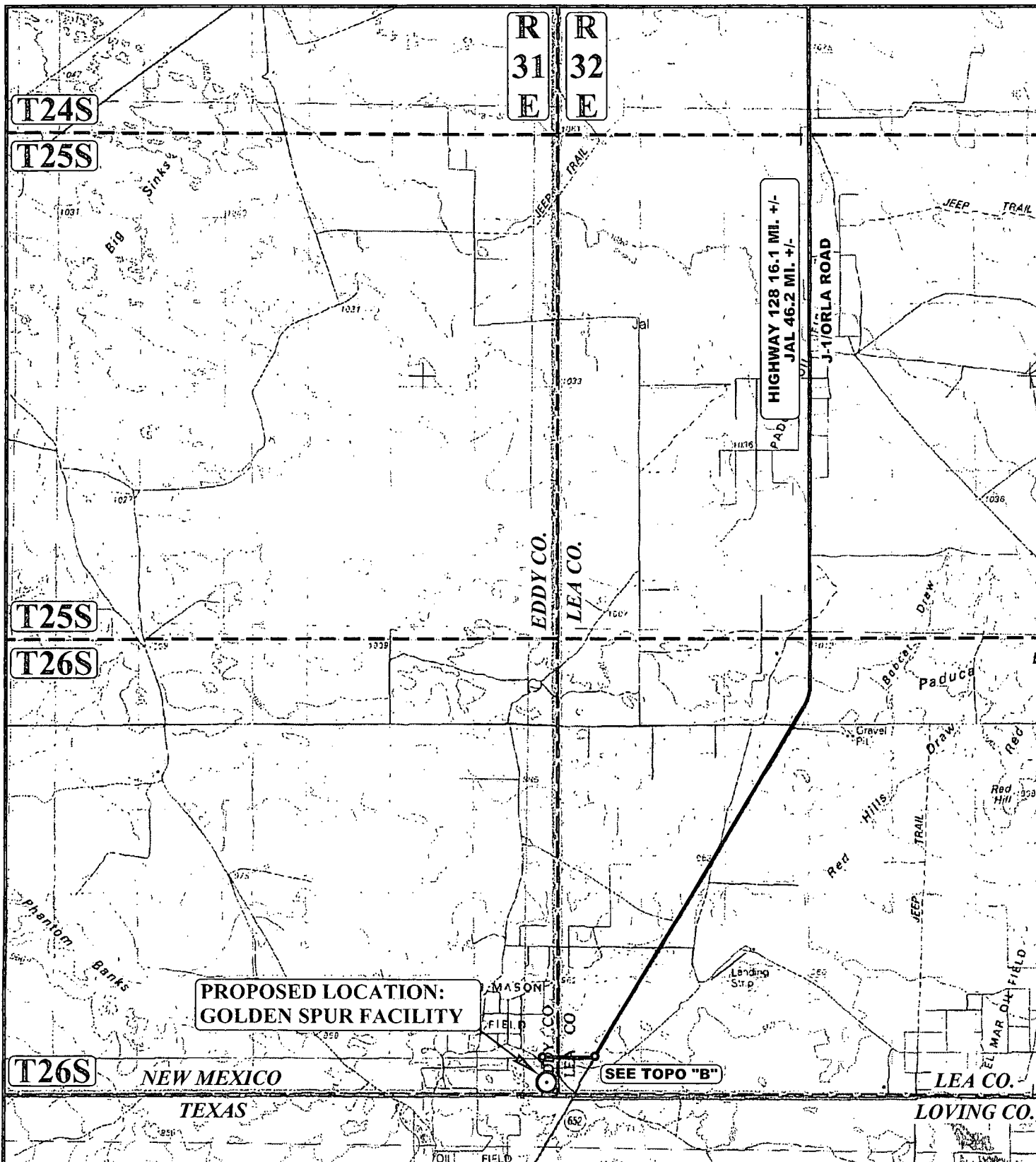
ConocoPhillips Company

**GOLDEN SPUR FACILITY
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO**



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

DRAWN BY: H.W.	DATE DRAWN: 05-21-15
SCALE: 1" = 100'	REVISED: 00-00-00
ARCHAEOLOGICAL SURVEY BOUNDARY	
FIGURE #5	



**PROPOSED LOCATION:
GOLDEN SPUR FACILITY**

SEE TOPO "B"

LEGEND:

○ PROPOSED LOCATION

ConocoPhillips Company

**GOLDEN SPUR FACILITY
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO**

DRAWN BY: C.B.

DATE DRAWN: 12-5-2014

SCALE: 1:100,000

REVISED: 05-13-2015 R.C.

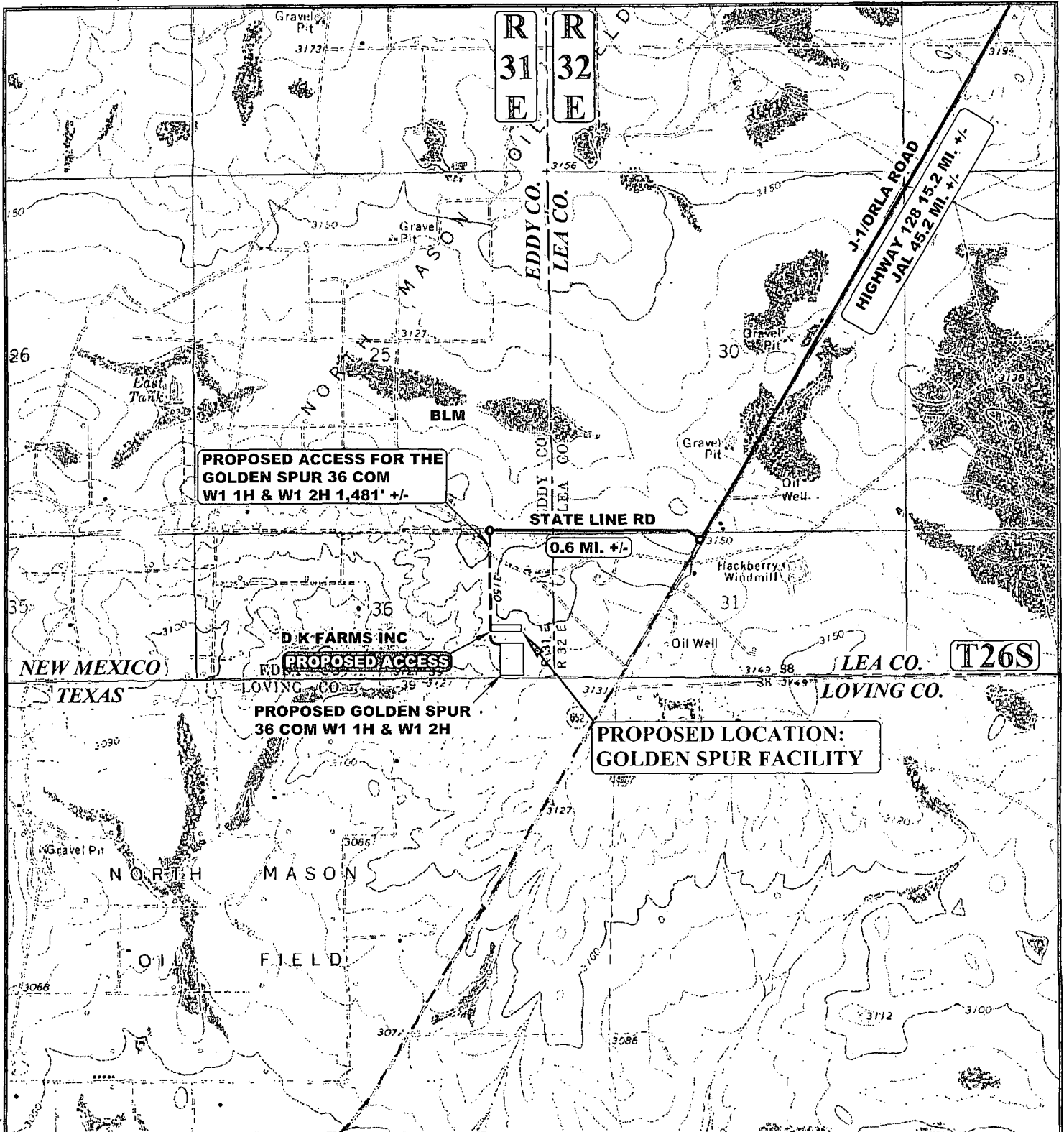
ACCESS ROAD MAP

TOPO A



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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 UINTEH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- - - PROPOSED ROAD
- - - PROPOSED ROAD (SERVICING OTHER WELLS)



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



ConocoPhillips Company

GOLDEN SPUR FACILITY
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DRAWN BY: C.B.	DATE DRAWN: 12-5-2014
SCALE: 1" = 2000'	REVISED: 05-13-2015 R.C.
ACCESS ROAD MAP	TOPO B

BEGINNING AT THE INTERSECTION OF HIGHWAY 18 AND HIGHWAY 128 PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION FROM JAL, NEW MEXICO ALONG HIGHWAY 128 APPROXIMATELY 30.0 MILES TO THE JUNCTION OF THIS ROAD AND ORLA ROAD/J-1 TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 15.2 MILES TO THE JUNCTION OF THIS ROAD AND STATE LINE ROAD TO THE EAST; TURN RIGHT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE GOLDEN SPUR 36 COM W1 1H & W1 2H TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 1481' TO THE PROPOSED LOCATION TO THE EAST.

TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 46.1 MILES.

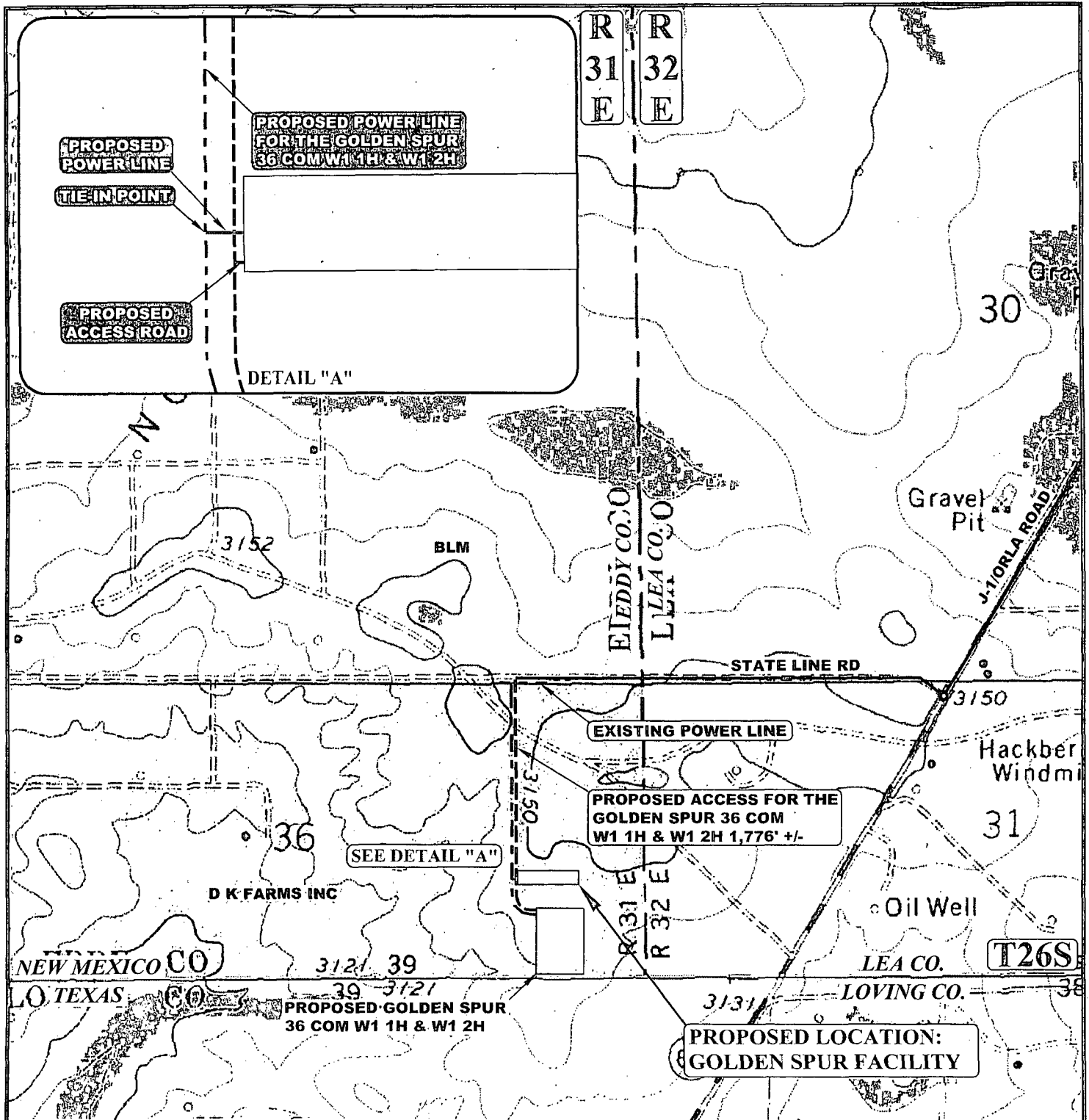
ConocoPhillips Company

**GOLDEN SPUR FACILITY
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO**



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

DRAWN BY: C.B.	DATE DRAWN: 12-5-2014
	REVISED: 05-13-2015 R.C.
ROAD DESCRIPTION	



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 UTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- PROPOSED POWER LINE
- PROPOSED POWER LINE (SERVICING OTHER WELLS)
- PROPOSED ROAD (SERVICING OTHER WELLS)



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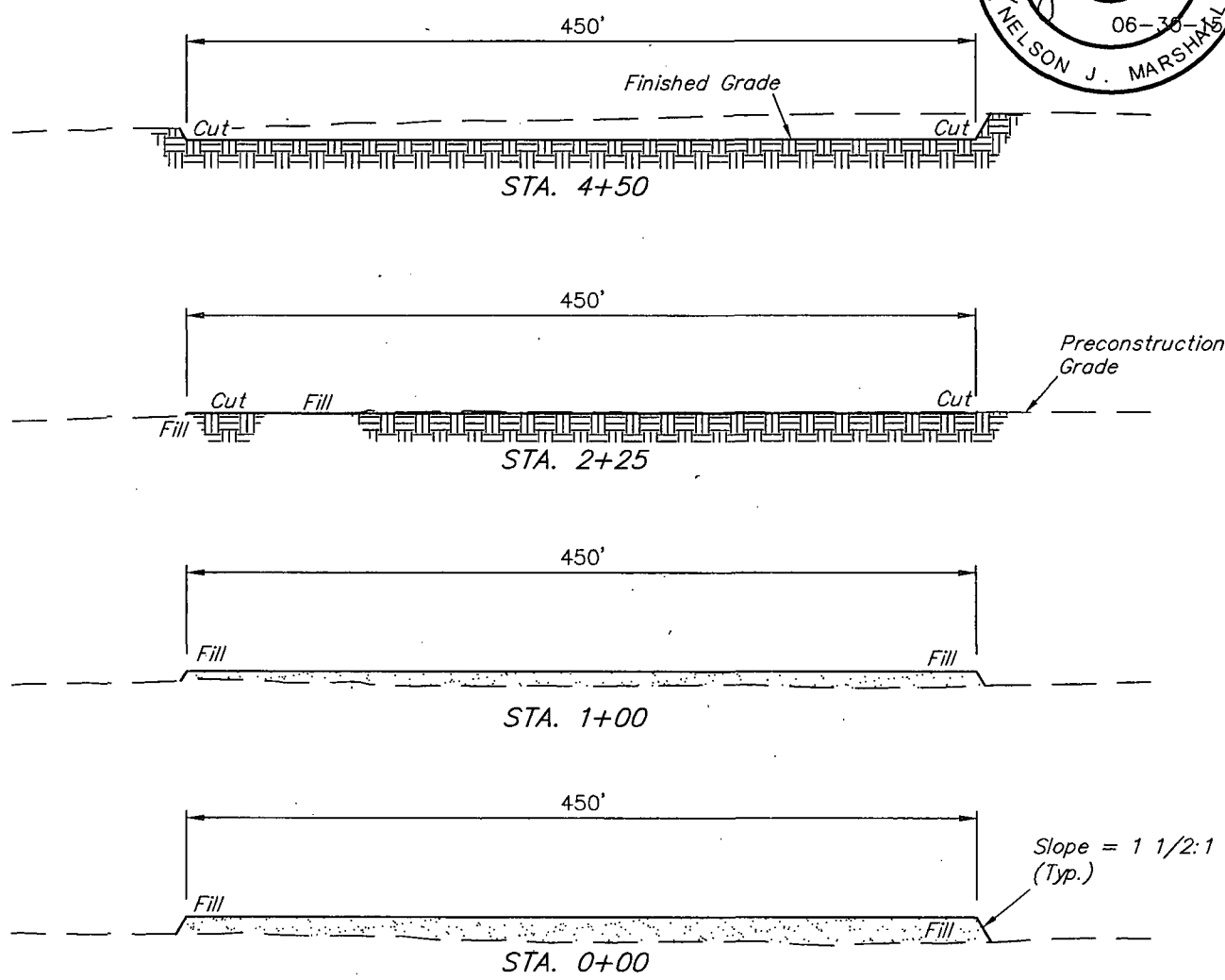
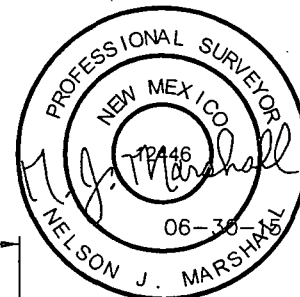


ConocoPhillips Company

GOLDEN SPUR FACILITY
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DRAWN BY: C.B.	DATE DRAWN: 12-5-2014
SCALE: 1" = 1000'	REVISED: 05-13-2015 R.C.
POWER LINE MAP	TOPO E

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



APPROXIMATE EARTHWORK QUANTITIES	
NO TOPSOIL STRIPPING	0 Cu. Yds.
REMAINING LOCATION	10,730 Cu. Yds.
TOTAL CUT	10,730 Cu. Yds.
FILL	11,090 Cu. Yds.
DEFICIT MATERIAL	<360> Cu. Yds.
TOPSOIL	0 Cu. Yds.
DEFFICIT UNBALANCE (After Interim Rehabilitation)	<360> Cu. Yds.

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	ACRES
TANK BATTERY SITE DISTURBANCE	NA	±4.879
TEMPORARY ACCESS ROAD R-O-W DISTURBANCE	±460.05'	±0.317
PIPELINE R-O-W DISTURBANCE	±1,811.31'	±1.463
POWER LINE R-O-W DISTURBANCE	±474.06'	±0.326
TOTAL SURFACE USE AREA		±6.985

NOTES:

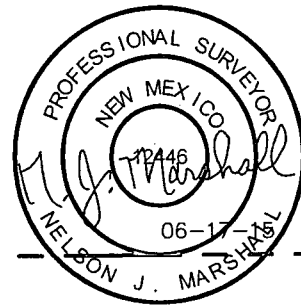
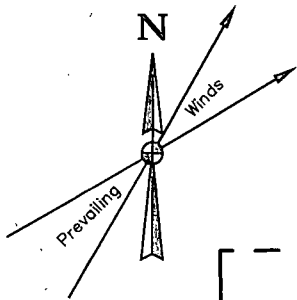
- Fill quantity includes 5% for compaction.
- Deficit material to be obtained from approved borrow area.

ConocoPhillips Company
RED HILLS CENTRAL FACILITY WEST B
LOT 1,
SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



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

DRAWN BY: H.W.	DATE DRAWN: 06-08-15
SCALE: AS SHOWN	REVISED: 06-30-15 B.D.H.
TYPICAL CROSS SECTIONS FIGURE #2	



Proposed
Temporary
Access Road

Proposed
GOLDEN SPUR
FACILITY

APPROXIMATE CENTER OF PAD

650' x 650' Archaeological
Survey Boundary

Proposed GOLDEN SPUR
#36 COM W1 1H &
#36 COM W1 2H
Well Pad

Section 36
Section 31

R R
31 32
E E

NOTES:

ConocoPhillips Company

RED HILLS CENTRAL FACILITY WEST B

LOT 1,

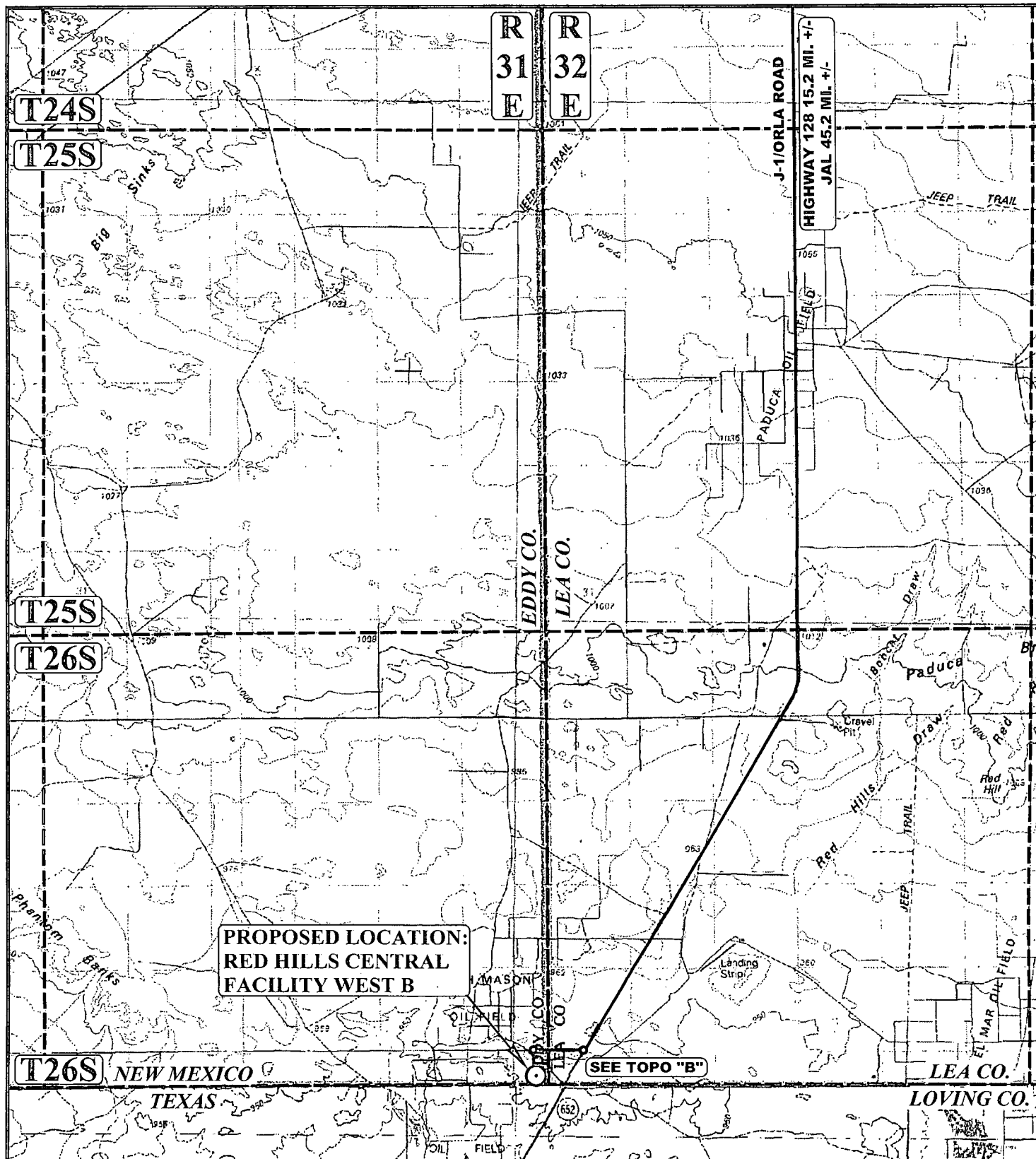
SECTION 36, T26S, R31E, N.M.P.M.

EDDY COUNTY, NEW MEXICO



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

DRAWN BY: H.W.	DATE DRAWN: 06-08-15
SCALE: 1" = 100'	REVISED: 00-00-00
ARCHAEOLOGICAL SURVEY BOUNDARY	
FIGURE #5	



LEGEND:

○ PROPOSED LOCATION



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ConocoPhillips Company

**RED HILLS CENTRAL FACILITY WEST B
 LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO**

DRAWN BY: R.C.

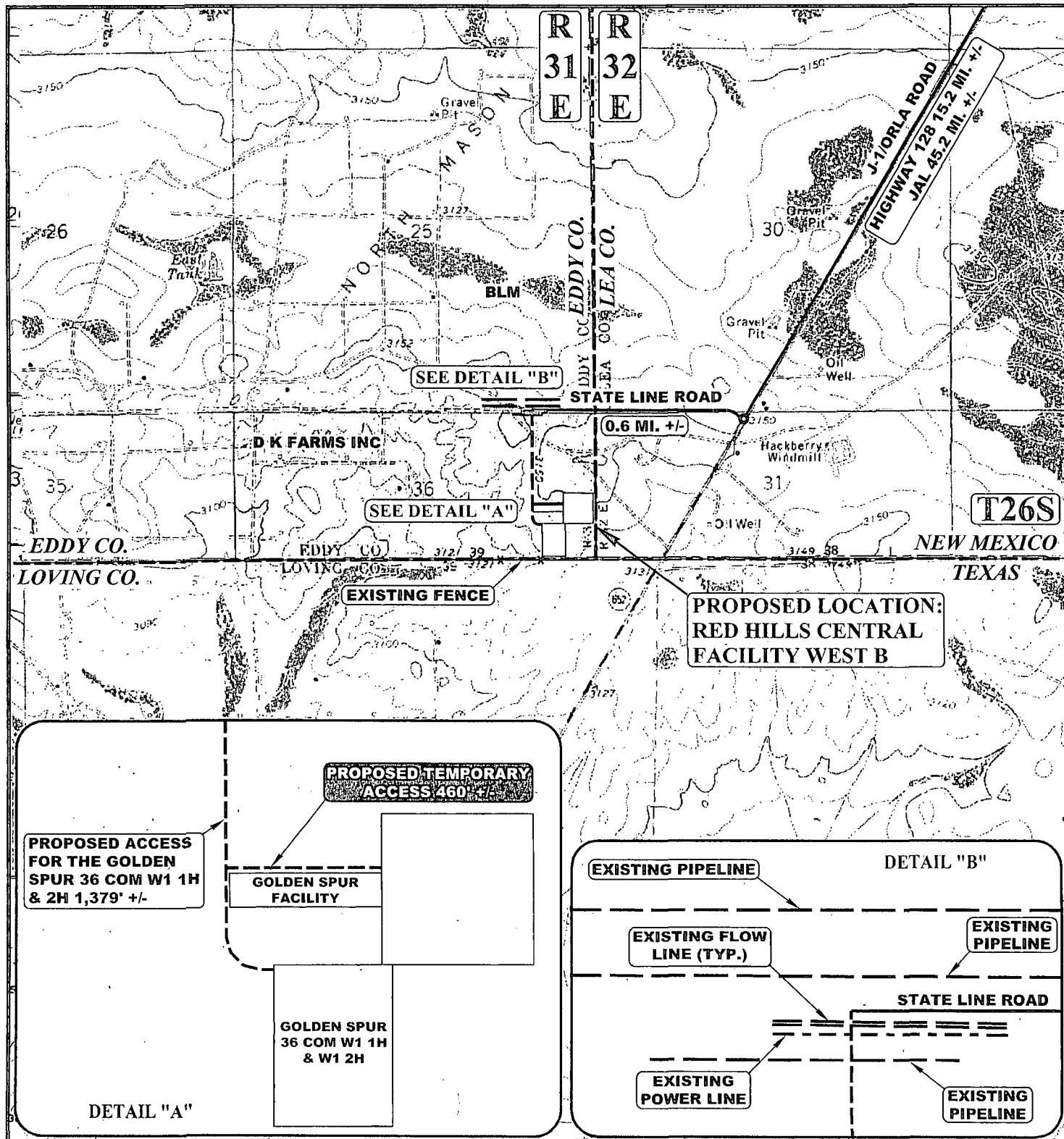
DATE DRAWN: 06-12-15

SCALE: 1:100,000

REVISED: 00-00-00

ACCESS ROAD MAP

TOPO A



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 UTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- - - PROPOSED ROAD
- * - * - EXISTING FENCE
- - - EXISTING POWER LINE
- - - EXISTING PIPELINE



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ConocoPhillips Company

**RED HILLS CENTRAL FACILITY WEST B
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO**

DRAWN BY: R.C.

DATE DRAWN: 06-12-15

SCALE: 1" = 2000'

REVISED: 00-00-00

ACCESS ROAD MAP

TOPO B

BEGINNING AT THE INTERSECTION OF HIGHWAY 18 AND HIGHWAY 128 PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION FROM JAL, NEW MEXICO ALONG HIGHWAY 128 APPROXIMATELY 30.0 MILES TO THE JUNCTION OF THIS ROAD AND J-1/ORLA ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 15.2 MILES TO THE JUNCTION OF THIS ROAD AND STATE LINE ROAD TO THE EAST; TURN RIGHT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE GOLDEN SPUR 36 COM W1 1H & 2H WELL PAD TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 1,379' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 460' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 46.1 MILES.

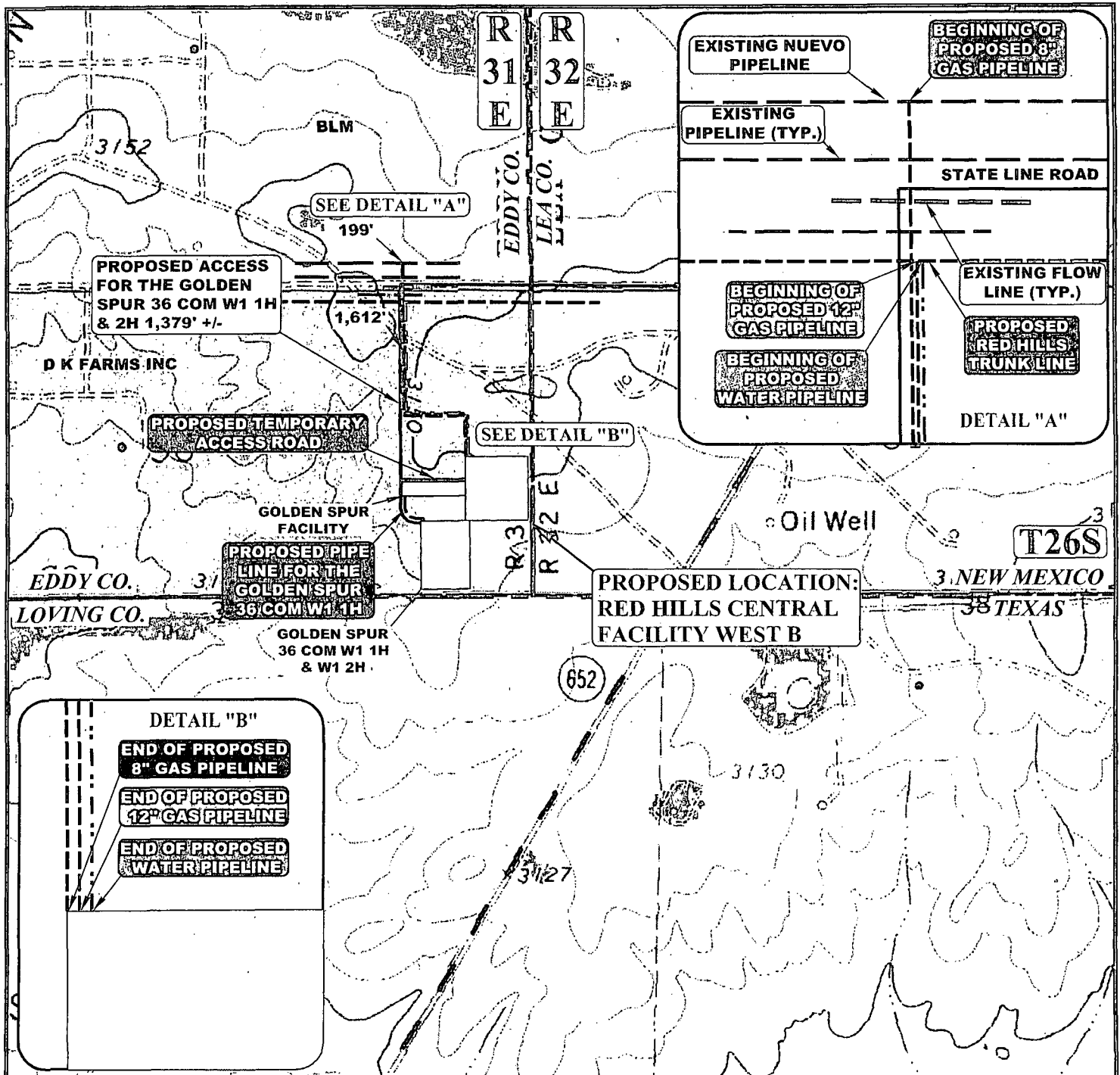
ConocoPhillips Company

**RED HILLS CENTRAL FACILITY WEST B
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO**



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

DRAWN BY: R.C.	DATE DRAWN: 06-12-15
	REVISED: 00-00-00
ROAD DESCRIPTION	



APPROXIMATE TOTAL WATER PIPELINE DISTANCE = 1,537' +/-

APPROXIMATE TOTAL 12" GAS PIPELINE DISTANCE = 1,537' +/-

APPROXIMATE TOTAL 8" GAS PIPELINE DISTANCE = 1,811' +/-

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 WATER LINE
	PROPOSED 8" PIPELINE
	PROPOSED 12" PIPELINE
	EXISTING PIPELINE
	PROPOSED PIPELINE (SERVICING OTHER WELLS)

ConocoPhillips Company

RED HILLS CENTRAL FACILITY WEST B
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DRAWN BY: R.C.

DATE DRAWN: 06-12-15

SCALE: 1" = 1000'

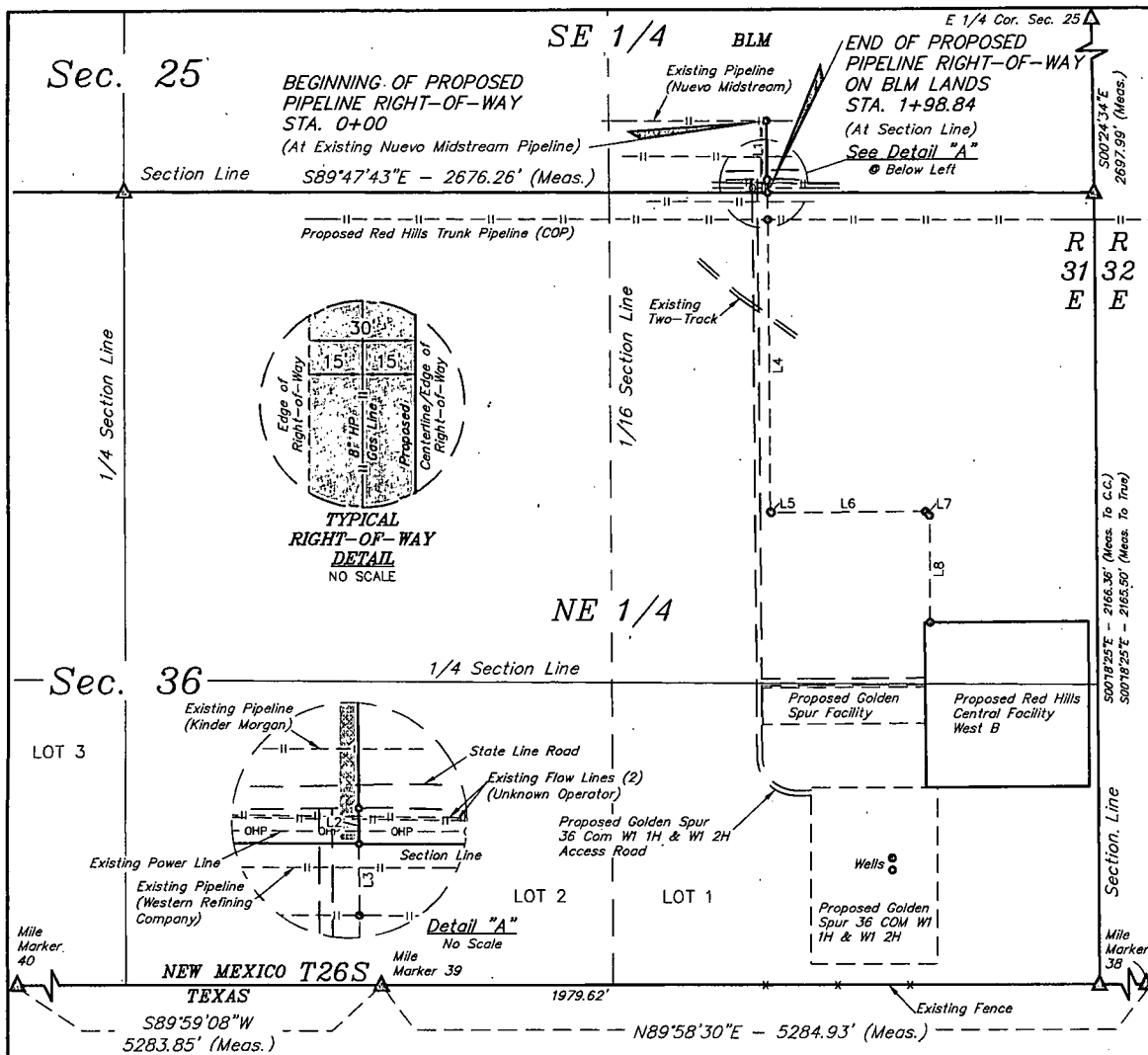
REVISED: 06-25-15

PIPELINE MAP

TOPO D



UELS, LLC
 Corporate Office * 85 South 200 East
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PIPELINE RIGHT-OF-WAY DESCRIPTION ON BLM LANDS

BEGINNING AT A POINT IN THE SE 1/4 SE 1/4 SECTION 25, T26S, R31E, N.M.P.M., WHICH BEARS $N77^{\circ}23'19"W$ 925.44' FROM THE SOUTHEAST CORNER OF SAID SECTION 25, THENCE A 30' WIDE RIGHT-OF-WAY BEING 30' ON THE RIGHT SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, $S00^{\circ}21'53"E$ 161.47'; THENCE $S00^{\circ}21'53"E$ 37.37' TO A POINT ON THE SOUTH LINE OF THE SE 1/4 SE 1/4 OF SAID SECTION 25, WHICH BEARS $N89^{\circ}47'43"W$ 901.85' FROM THE SOUTHEAST CORNER OF SAID SECTION 25. 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 0.137 ACRES MORE OR LESS.

BEGINNING OF PIPELINE STA. 0+00 BEARS $N77^{\circ}23'19"W$ 925.44' FROM THE SOUTHEAST CORNER OF SECTION 25, T26S, R31E, N.M.P.M.

END OF PIPELINE ON BLM LANDS STA. 1+98.84 BEARS $N89^{\circ}47'43"W$ 901.85' FROM THE SOUTHEAST CORNER OF SECTION 25, T26S, R31E, N.M.P.M.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	$S00^{\circ}21'53"E$	161.47'
L2	$S00^{\circ}21'53"E$	37.37'



ACREAGE / LENGTH TABLE				
	OWNERSHIP	FEET	RODS	ACRES
PIPELINE	BLM	198.84	12.05	0.137

△ = SECTION CORNERS LOCATED.

NOTES:

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
06-30-15

ConocoPhillips Company

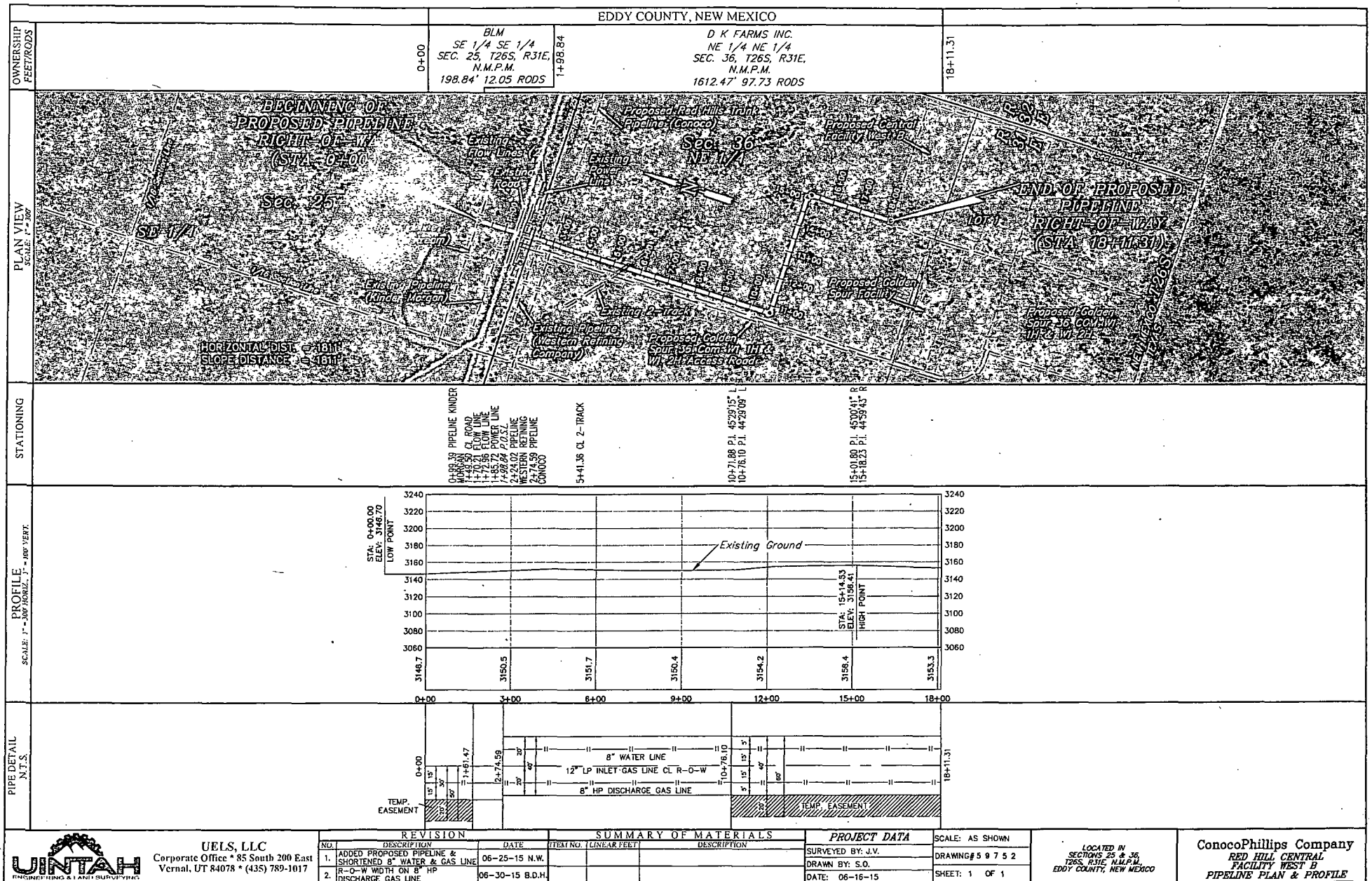
RED HILLS CENTRAL FACILITY WEST B
SECTION 25, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DRAWN BY: T.E.	DATE DRAWN: 06-16-15.
SCALE: 1" = 400'	REVISED: 06-30-15 B.D.H.

PIPELINE R.O.W.



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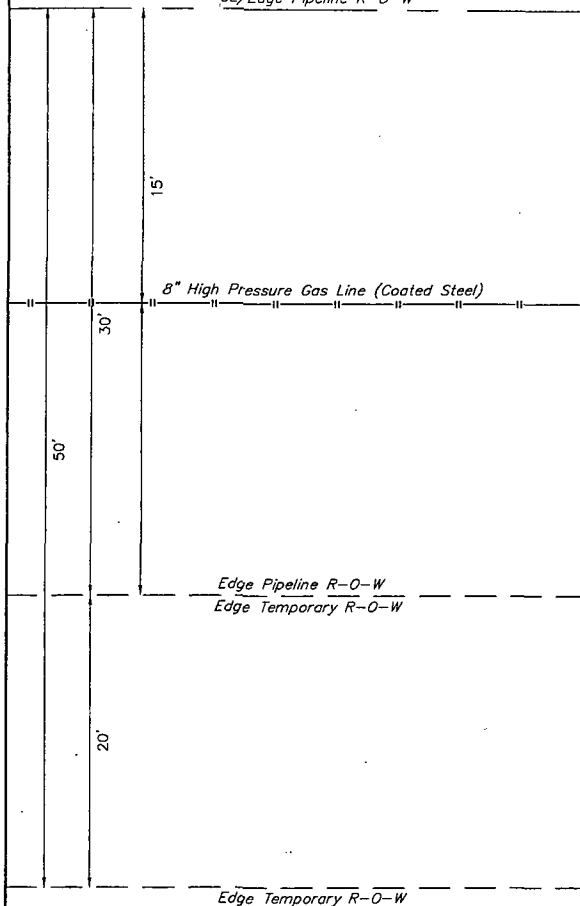


RIGHT-OF-WAY DETAIL

NO SCALE

R-O-W Direction

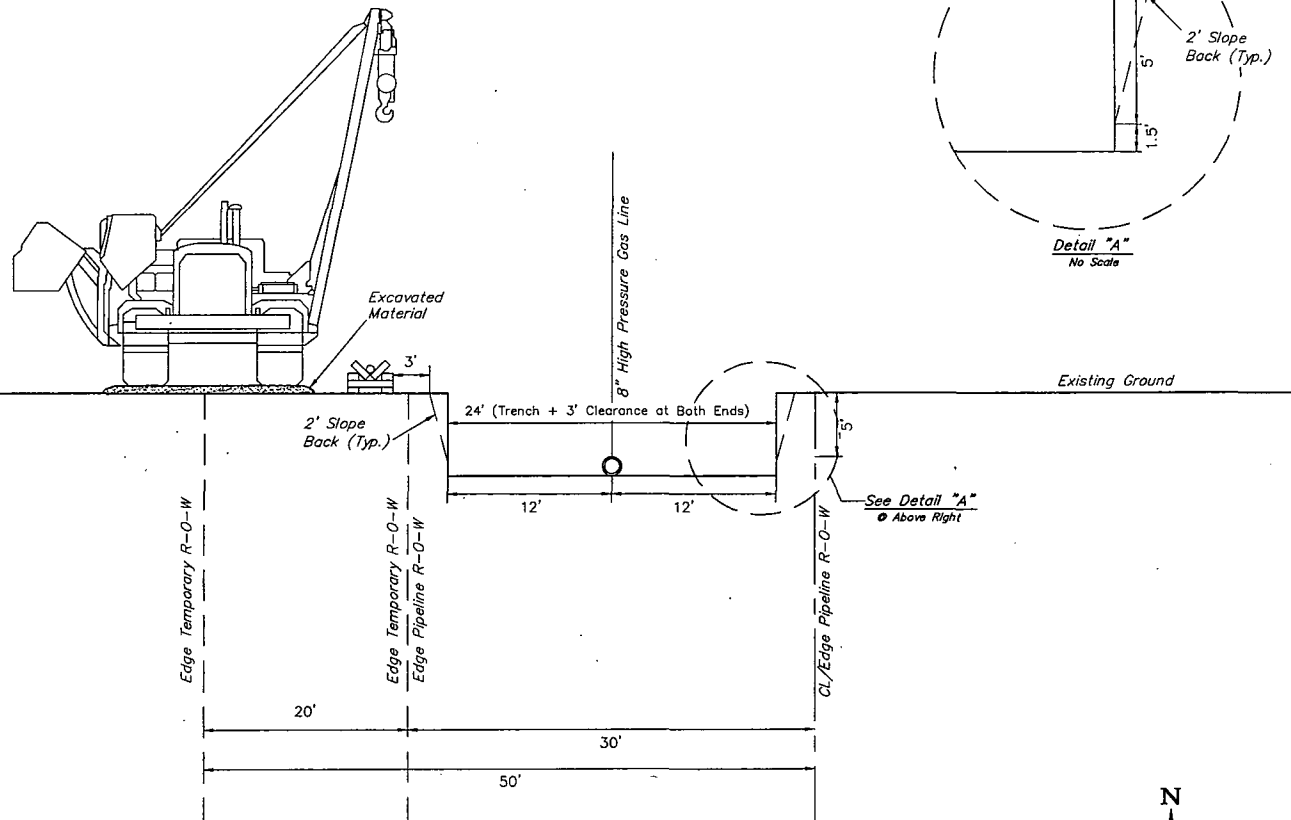
CL/Edge Pipeline R-O-W



TRENCH DETAIL

NO SCALE

STA. 0+00 TO 1+61.47



Detail "A"
No Scale



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

REVISION			SUMMARY OF MATERIALS	
NO.	DESCRIPTION	DATE	TEST NO. (LINEAR FEET)	DESCRIPTION
1.	CORRECT R-O-W DIRECTION	06-25-15 B.D.H.		
2.	CORRECT R-O-W WIDTH	06-30-15 B.D.H.		

PROJECT DATA		SCALE: N/A
SURVEYED BY: J.V.	DRAWING# N/A	
DRAWN BY: S.O.		
DATE: 06-17-15	SHEET: 1 OF 4	

LOCATED IN
SECTIONS 24 & 36,
T26S, R31E, N4M.P.M.,
EDDY COUNTY, NEW MEXICO

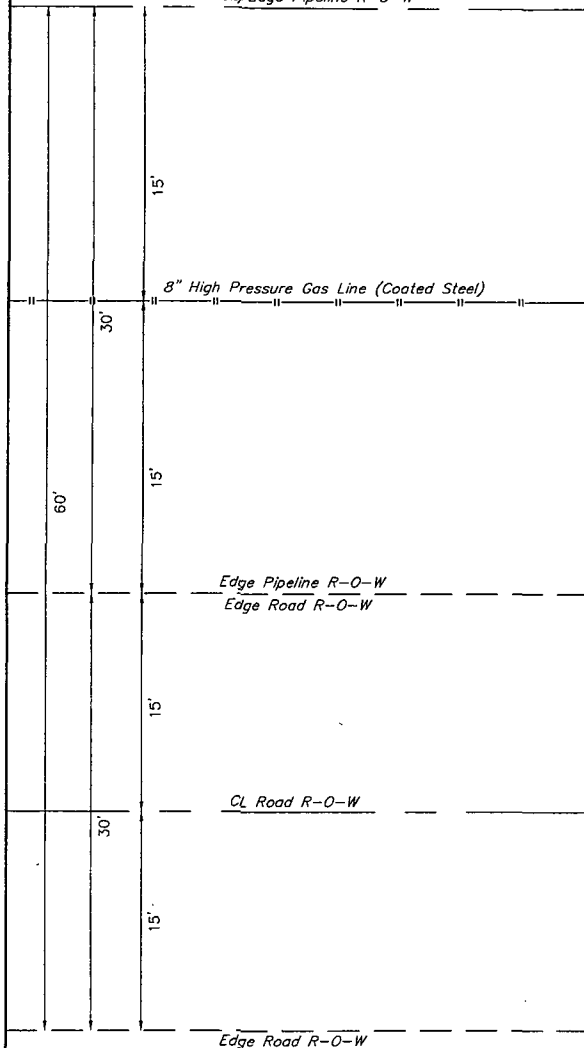
ConocoPhillips Company
RED HILLS CENTRAL
FACILITY WEST B
RIGHT-OF-WAY DETAIL

RIGHT-OF-WAY DETAIL

NO SCALE

R-O-W Direction

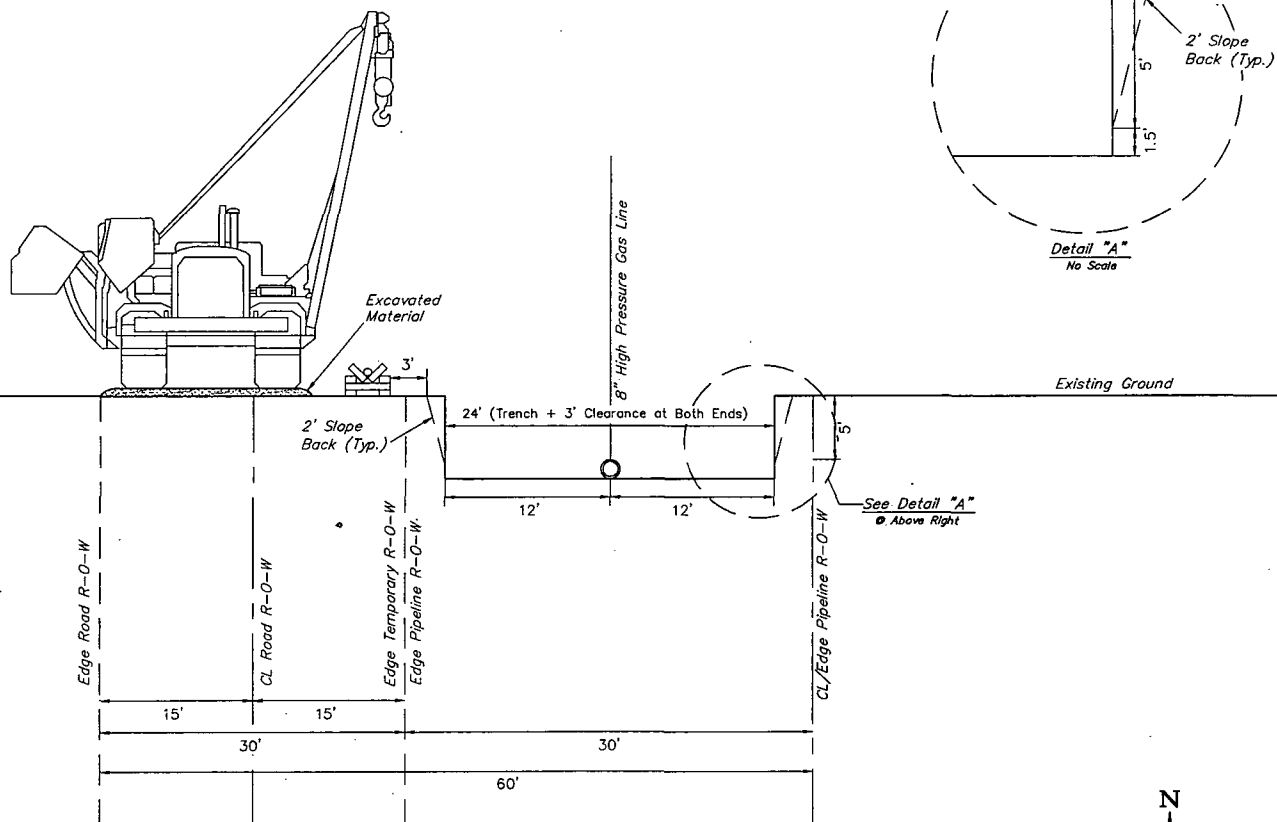
CL/Edge Pipeline R-O-W



TRENCH DETAIL

NO SCALE

STA. 1+61.47 TO 2+74.59



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

REVISION			SUMMARY OF MATERIALS	
NO.	DESCRIPTION	DATE	ITEM NO.	LINEAR FEET
1.	CORRECT R-O-W DIRECTION	06-25-15 B.D.H.		
2.	CORRECT R-O-W WIDTH	06-30-15 B.D.H.		

PROJECT DATA		SCALE: N/A
SURVEYED BY: J.V.	DRAWING# N/A	
DRAWN BY: S.O.		
DATE: 06-17-15	SHEET: 2 OF 4	

LOCATED IN
SECTIONS 25 & 36
T20S, R31E, N4M, PM
EDDY COUNTY, NEW MEXICO

ConocoPhillips Company
RED HILLS CENTRAL
FACILITY WEST B
RIGHT-OF-WAY DETAIL

RIGHT-OF-WAY DETAIL

NO SCALE

R-O-W Direction

Edge Pipeline R-O-W

8" Water Line (Poly Line)

20'

CL Pipeline R-O-W

12" Low Pressure Gas Inlet Line (Coated Steel)

40'

8" High Pressure Gas Line (Coated Steel)

Edge Pipeline R-O-W

Edge Road R-O-W

15'

CL Road R-O-W

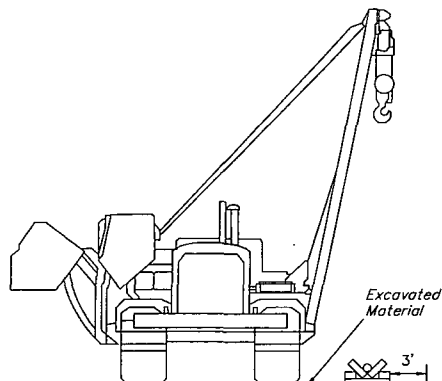
30'

Edge Road R-O-W

TRENCH DETAIL

NO SCALE

STA. 2+74.59 TO 10+76.10



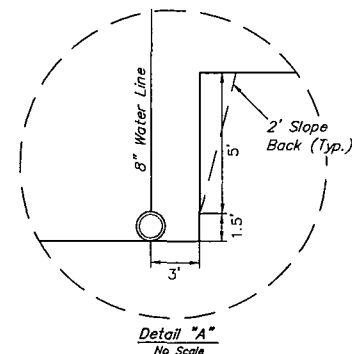
8" High Pressure Gas Line

12" Low Pressure Gas Inlet Line

8" Water Line

Existing Ground

See Detail "A"
Above Right



Detail "A"
No Scale

Edge Road R-O-W

CL Road R-O-W

Edge Road R-O-W

Edge Pipeline R-O-W

CL Pipeline R-O-W

Edge Pipeline R-O-W

15'

15'

20'

20'

30'

40'

70'



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Vernal, UT 84078 * (435) 789-1017

REVISION		
NO.	DESCRIPTION	DATE
1.	CORRECT R-O-W DIRECTION	06-25-15 B.O.H.

SUMMARY OF MATERIALS		
ITEM NO.	LINEAR FEET	DESCRIPTION

PROJECT DATA	
SURVEYED BY: J.V.	
DRAWN BY: S.O.	
DATE: 06-17-15	

SCALE: N/A
DRAWING# N/A
SHEET: 3 OF 4

LOCATED IN
SECTIONS 25 & 36
T26S, R10E, N40P4
EDDY COUNTY, NEW MEXICO

ConocoPhillips Company
RED HILLS CENTRAL
FACILITY WEST B
RIGHT-OF-WAY DETAIL

RIGHT-OF-WAY DETAIL

NO SCALE

R-O-W Direction

Edge Pipeline R-O-W

8" Water Line (Poly Line)

CL Pipeline R-O-W

12" Low Pressure Gas Inlet Line (Coated Steel)

8" High Pressure Gas Line (Coated Steel)

Edge Pipeline R-O-W

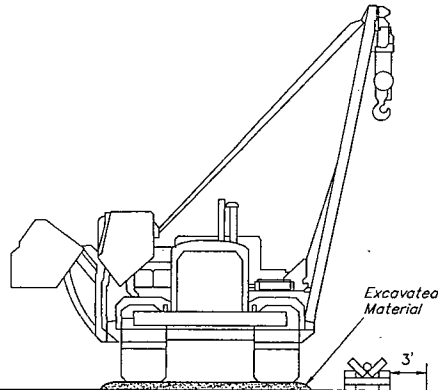
Edge Temporary R-O-W

Edge Temporary R-O-W

TRENCH DETAIL

NO SCALE

STA. 10+76.10 TO 18+11.31



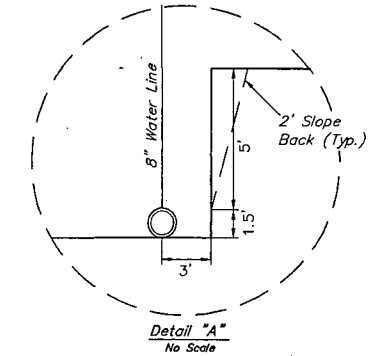
Edge Temporary R-O-W

Edge Temporary R-O-W

Edge Pipeline R-O-W

CL Pipeline R-O-W

Edge Pipeline R-O-W



Existing Ground

See Detail "A"
• Above Right



UELS, LLC
Corporate Office * 85 South 200 East
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REVISION			SUMMARY OF MATERIALS	
NO.	DESCRIPTION	DATE	ITEM NO.	LINEAR FEET
1.	CORRECT R-O-W DIRECTION	06-28-15 B.D.H.		

PROJECT DATA		SCALE: N/A
SURVEYED BY: J.V.	DRAWING# N/A	
DRAWN BY: S.O.	SHEET: 4 OF 4	
DATE: 06-17-15		

LOCATED IN
SECTIONS 25 & 36,
T26S, R31E, N4M.P.M.
EDDY COUNTY, NEW MEXICO

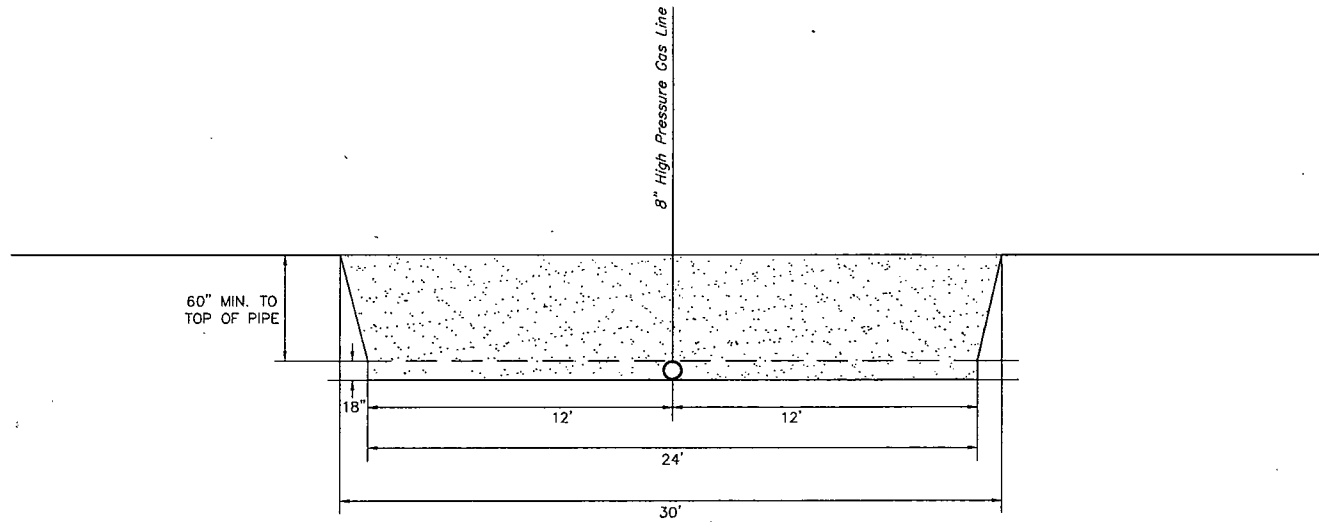
ConocoPhillips Company
RED HILLS CENTRAL
FACILITY WEST B
RIGHT-OF-WAY DETAIL

BACKFILL DIAGRAM

NO SCALE

STA. 0+00 TO 2+74.59

R-O-W Direction



BACKFILL DIRT TO BE AS FREE OF ROCKS AND
LARGE PARTICLES AS POSSIBLE

8" WATER LINE WILL BE POLY LINE

SOFT FILL DIRT OR SAND WITH NO ROCKS OR SOLID
PARTICLES GREATER THAN 1" IN CIRCUMFERENCE

5' CLEARANCE AT BOTH ENDS



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

REVISION			SUMMARY OF MATERIALS	
NO.	DESCRIPTION	DATE	ITEM NO.	LINEAR FEET
1.	CORRECT R-O-W WIDTH	06-30-15 B.D.H.		

PROJECT DATA

SURVEYED BY: J.V.
DRAWN BY: S.O.
DATE: 06-17-15

SCALE: N/A

DRAWING# N/A

SHEET: 1 OF 1

LOCATED IN
SECTIONS 23 & 36,
T26S, R37E, N44PM,
EDDY COUNTY, NEW MEXICO

ConocoPhillips Company

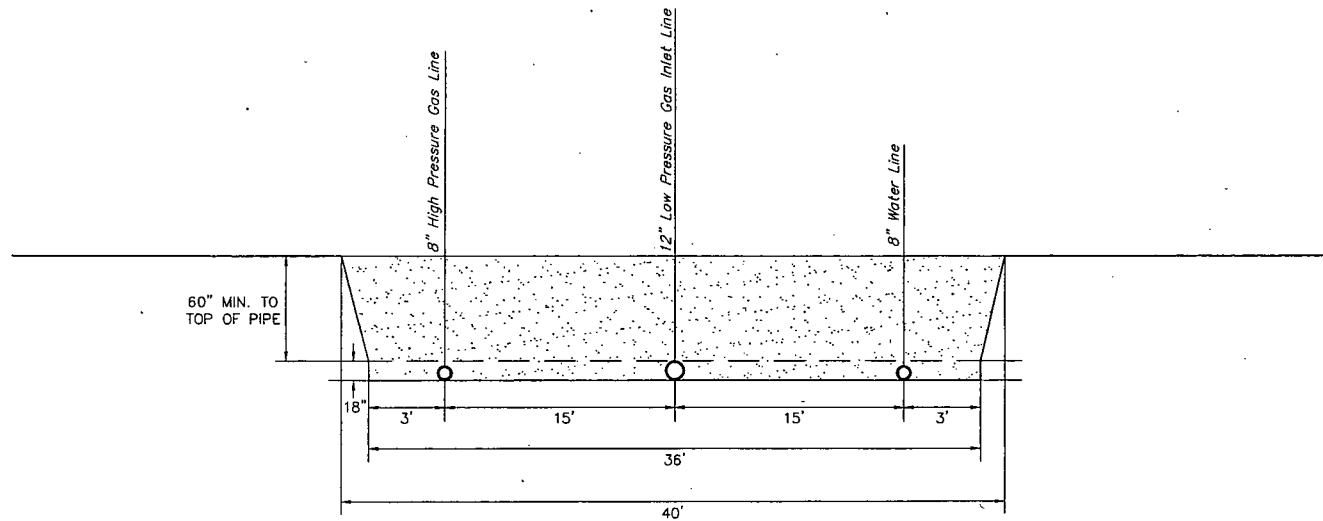
RED HILLS CENTRAL
FACILITY WEST B
BACKFILL DIAGRAM

BACKFILL DIAGRAM

NO SCALE

STA. 2+74.59 TO 18+11.31

R-O-W Direction



BACKFILL DIRT TO BE AS FREE OF ROCKS AND
LARGE PARTICLES AS POSSIBLE

8" HIGH PRESSURE GAS LINE WILL BE COATED STEEL

12" LOW PRESSURE GAS INLET LINE WILL BE
COATED STEEL

8" WATER LINE WILL BE POLY LINE

SOFT FILL DIRT OR SAND WITH NO ROCKS OR SOLID
PARTICLES GREATER THAN 1" IN CIRCUMFERENCE

5" CLEARANCE AT BOTH ENDS

15" CLEARANCE BETWEEN EACH PIPE



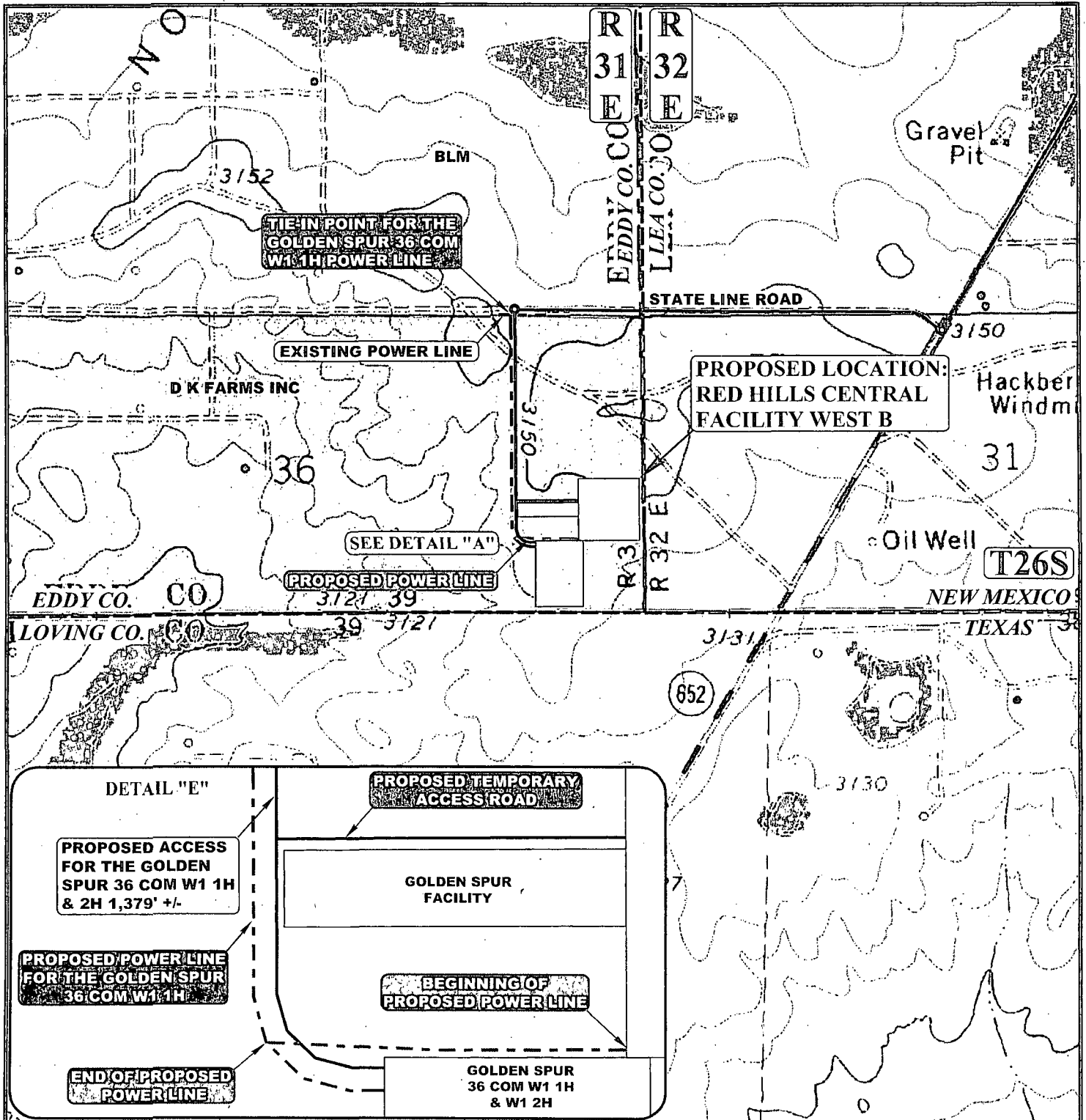
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

REVISION		SUMMARY OF MATERIALS	
NO.	DESCRIPTION	ITEM NO.	LINEAR FEET
1.	CORRECT R-O-W WIDTH	06-30-15 B.O.H.	

PROJECT DATA	
SURVEYED BY: J.V.	SCALE: N/A
DRAWN BY: S.O.	DRAWING# N/A
DATE: 06-17-15	SHEET: 1 OF 1

LOCATED IN
SECTIONS 25 & 36,
T20S, R12E, N41PM,
EDDY COUNTY, NEW MEXICO

ConocoPhillips Company
RED HILLS CENTRAL
FACILITY WEST B
BACKFILL DIAGRAM



APPROXIMATE TOTAL POWER LINE DISTANCE = 474' +/-

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
- - - EXISTING POWER LINE
- - - PROPOSED POWER LINE (SERVICING OTHER WELLS)

ConocoPhillips Company

RED HILLS CENTRAL FACILITY WEST B
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DRAWN BY: R.C.

DATE DRAWN: 06-12-15

SCALE: 1" = 1000'

REVISED: 00-00-00

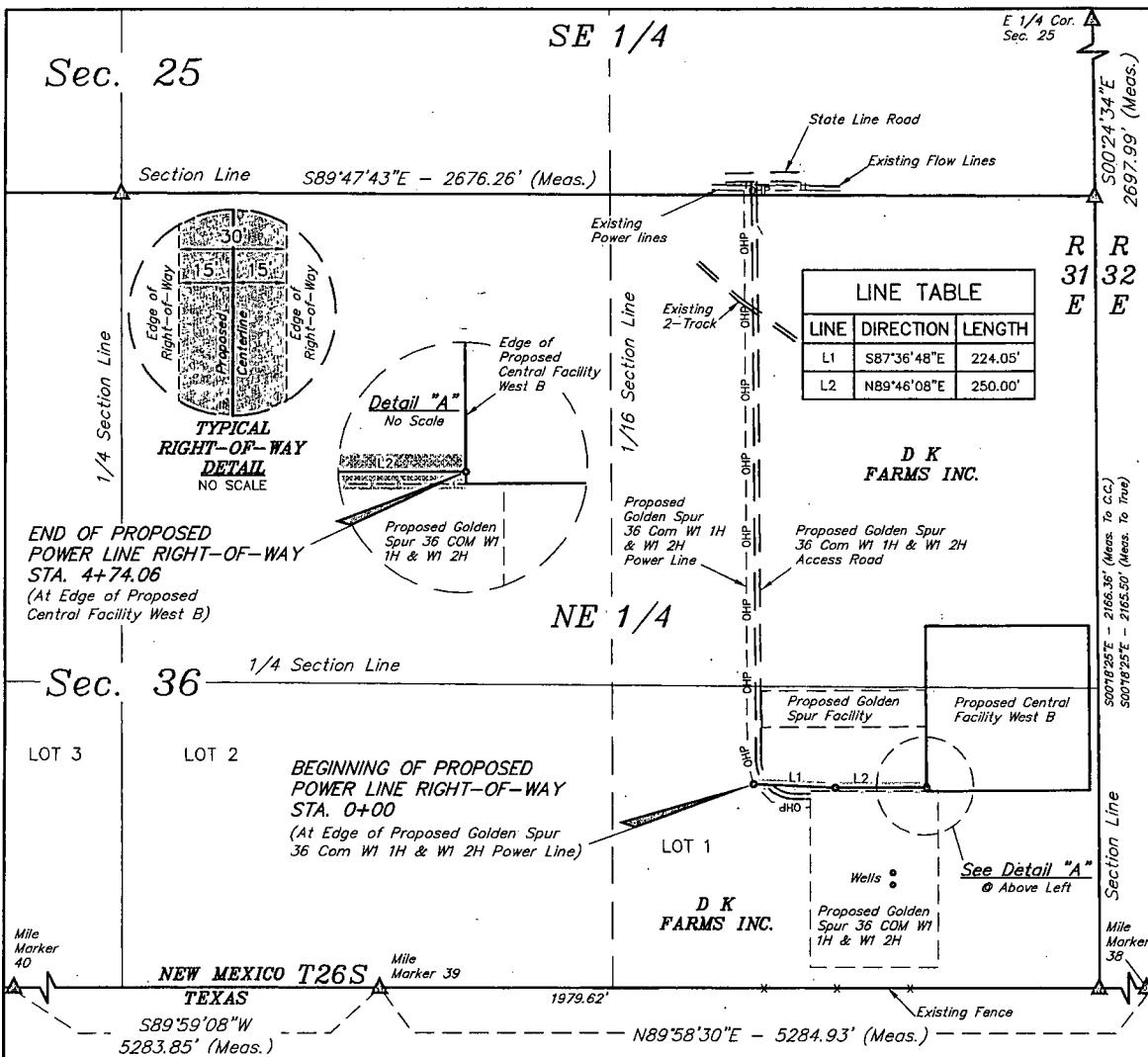
POWER LINE MAP

TOPO E



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





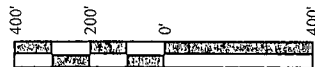
POWER LINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN LOT 1 OF SECTION 36, T26S, R31E, N.M.P.M., WHICH BEARS S30°20'43\"W 1861.60' FROM THE NORTHEAST CORNER OF SAID SECTION 36, THENCE S87°36'48\"E 224.05'; THENCE N89°46'08\"E 250.00' TO A POINT IN LOT 1 OF SAID SECTION 36, WHICH BEARS S16°07'03\"W 1680.95' FROM THE NORTHEAST CORNER OF SAID SECTION 36. 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 0.326 ACRES MORE OR LESS.

BEGINNING OF POWER LINE STA. 0+00 BEARS S30°20'43\"W 1861.60' FROM THE NORTHEAST CORNER OF SECTION 36, T26S, R31E, N.M.P.M.

END OF POWER LINE STA. 4+74.06 BEARS S16°07'03\"W 1680.95' FROM THE NORTHEAST CORNER OF SECTION 36, T26S, R31E, N.M.P.M.



ACREAGE / LENGTH TABLE

	OWNERSHIP	FEET	RODS	ACRES
POWER LINE	D K FARMS INC.	474.06	28.73	0.326

△ = SECTION CORNERS LOCATED.

NOTES:

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
06-17-15

ConocoPhillips Company

RED HILLS CENTRAL FACILITY WEST B
SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



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



DRAWN BY: T.E.	DATE DRAWN: 06-16-15
SCALE: 1" = 400'	REVISED: 00-00-00

POWER LINE R-O-W

ConocoPhillips, Golden Spur 36 COM W1 1H

1. Geologic Formations

TVD of target	11,610	Pilot hole depth	N/A
MD at TD:	18,830	Deepest expected fresh water:	300

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards
Quaternary Fill	Surface	Water	
Base of Fresh Water	300	Water	
Rustler	920	Water	
Top of Salt / Salado	1,355	Salt	
Castile	2,300	Salt	
Delaware Top / Base Salt	4,165	Oil/Gas	Loss of Circulation
Ford Shale	4,235	Oil/Gas	
Cherry Canyon	5,110	Oil/Gas	Loss of Circulation
Brushy Canyon	6,485	Oil/Gas	Loss of Circulation
Bone Springs	9,150	Oil/Gas	Loss of Circulation
Bone Springs 3 rd Carb	10,220	Oil/Gas	
WolfCamp	11,330	Oil/Gas	
WolfCamp 1	11,530	Target Zone	

*H₂S, water flows, loss of circulation, abnormal pressures, etc.

ConocoPhillips, Golden Spur 36 COM W1 1H

2. Casing Program – Option Not to Run 9-5/8"

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Dry Tension
	From	To							
17.50"	0	998 1040	13.375"	54.5	J55	BTC	2.36	5.70	15.8
12.25"	0	4,165 ³¹²⁵ x 11,873 ^{7,879}	7.625"	29.7	P110	BTC	**1.7 COP Collapse Design S.F.	1.46	2.72
x 9.875"									
6.75"	0	18,830 (11610 TVD)	5.0"	18	P110	TXPBTC	1.59	1.65	2.78
BLM Minimum Safety Factor							1.125	1.00	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

9-5/8" Contingency Option

ConocoPhillips Company respectfully requests the option to not run 9-5/8" 40# L-80 BTC Casing and spare it as a contingency if the next hole section failed to support the hydrostatic column of the previous mud weight. The intent for the casing and cementing program:

- Drill the 12-1/4" to the Base of the Salt and 9-7/8" hole from Base of Salt to Wolfcamp 1 with the same density mud (OBM or Saturated Brine).
- Case and cement the well with 13-3/8" surface, 7-5/8" intermediate and 5" production casing (3-strings).
- Isolate the Salt & Delaware utilizing Annulus Casing Packer and Stage Tool if necessary.
- Bring cement from 7-5/8" casing shoe to surface.
- Provided that if the hole can no longer support the hydrostatic column of the previous mud weight, a contingency plan to run the 9-5/8" casing for cementing with severe losses if necessary.

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
12.25"	0	4,165	9.625"	40.0	L80	BTC	2.53	1.36	5.50
8.75"	0	11,873	7.625"	29.7	P110	TenW523	**1.7 COP Collapse Design S.F.	1.46	2.72

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y

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Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	#Sks	Wt. lb/ gal	Yld ft ³ / sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	300	13.7	1.63	8.50	7	Lead: Class C + 1.5% Bentonite + 1.0% CaCl ₂ + 0.2% Anti-Foam + 0.2% Dispersant.
	400	14.8	1.33	6.34	7	Tail: Class C + 0.2% Anti-Foam + 0.1% Dispersant.
Contingency Inter. 1	2000	11.5	2.74	15.25	15	Lead: Class C + 10.0% Bentonite + 0.2% Anti-Foam + 5lb/sk LCM + 0.25% Dispersant + 0.25% Retarder.
	350	13.5	1.35	6.34	5	Tail: Class C + 0.2% Anti-Foam + 0.25% Retarder + 0.5% Extender.
DV/ECP Tool: NO						
9-5/8" Casing will be set aside as contingency string for cementing with severe losses if necessary.						
Inter. 2	900	11.5	2.57	14.21	7	Lead: Class C + 10.0 lb/sk Extender + 0.25% Anti-Foam + 0.5% Retarder + 0.3% Fluid Loss + 1% Dispersant + 5 lbs/sk LCM + 4% Expanding Agent.
	140	13.5	1.49	6.76	7	Tail: Class C + 0.9% Gas Control + 9.0% Extender + 0.4% Dispersant + 0.5% Retarder + 0.2% Anti-Foam + 0.25 lb/sk Lost Circ Control + 5 lbs/sk LCM + 3.0% Expanding Agent
DV/ECP Tool ~4,500' (OPTIONAL)						
Prod.	400	11.5	2.57	15.25	15	Lead: Class C + 10.0% Bentonite + 0.2% Anti-Foam + 5lb/sk LCM + 0.25% Dispersant + 0.25% Retarder.
	800	16.4	1.10	4.28	5	Tail: Class H + 1.800 gal/sk Gas Control Agent + 0.025 gal/sk Dispersant + 0.080 gal/sk Retarder + 0.030 gal/sk Anti-Foam.
DV/ECP Tool NO'						

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

ConocoPhillips, Golden Spur 36 COM W1 1H

Casing String	TOC	% Excess
Surface	0'	100%
Contingency Intermediate 1	0'	100% - 130%
Intermediate 2	0'	50%
Production	11,373'	30% - 35%

Include Pilot Hole Cementing specs: NO PILOT HOLE.

Pilot hole depth N/A

KOP

see cor

Plug top	Plug Bottom	% Excess	No. Sacks	Wt. lb/gal	Yld ft ³ /sack	Water gal/sk	Slurry Description and Cement Type

4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4" x 9-7/8"	13-5/8"	5M	Annular	x	50% of working pressure
			Blind Ram	x	5M
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	Annular	x	50% testing pressure
			Blind Ram	x	10M
			Pipe Ram	x	
			Double Ram	x	
			Other*		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

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Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. <ul style="list-style-type: none"> Provide description here <p>See attached schematic.</p>

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	990 1040	Spud Mud	8.6-9.3	32-36	N/C
990	4,165	Brine or OBM	8.9-10.5	28-40	≤5
4,165	11,873	Brine or OBM	8.9-10.5	28-40	≤5
11,873	18,830	Oil Base Mud	12.0-14.0	30-40	≤5

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing	
X	GR from 200' above KOP to TD (GR as part of the BHA while drilling); Not log in the lateral.
X	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain
X	Dry samples taken 30' from intermediate 1 casing point to TD. GC Tracers KOP to TD.

Additional logs planned	Interval
	Resistivity
	Density
	CBL
X	Mud log
	PEX

ConocoPhillips, Golden Spur 36 COM W1 1H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	~6,600 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Use of 20 ppb – 25 ppb Wellbore Strengthening material (Walnut Fine) in 8.9 ppg to 10.5 ppg OBM or Saturated Brine with Axiom 3-deck shakers for recycling to increase the formation breakdown pressure above what would have with clear saturated 10 ppg brine.

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
X	H ₂ S is present
X	H ₂ S Plan attached

8. Other facets of operation

Is this a walking operation? If yes, describe. Yes, please see below.

Will be pre-setting casing? If yes, describe. Yes, please see below.

Spudder Rig and Skid Operations: Depending on rig availability, ConocoPhillips may pre-set the surface casing. The reasons for using the spudder rig to drill and pre-set surface casing are: Time & Cost Saving.

The "Pinnergy #1" Rig will be used to drill the surface hole and pre-set surface casing on all of the wells in the same pad. Once each surface hole section has been drilled, it will be cased and cemented according to all applicable rules and regulations (Onshore Orders). The wellhead will be nipped up and tested as soon as 13-3/8" surface casing is cut off after the applicable WOC time has been reached. A blind flange of the same pressure rating as the wellhead will be utilized to seal the wellbore on all casing strings. Pressure will be monitored via wing valves on each wellhead section and a means for intervention will be maintained while the drilling rig is not over the well. Spudder rig operation is expected to take 7-10 days for a quad pad and 4-6 days for a dual pad. The BLM will be contacted / notified 24 hours prior to commencing spudder rig operations.

Drilling operation will start with a big Drilling Rig (H&P Flex 3 rig type) and an approved BOP stack will be nipped up and tested on the wellhead before drilling operations resumes on each well. The rig will skid between the wells until each well's section has been drilled as planned (see Attachment #10). The BLM will be contacted / notified 24 hours before the big rig moves back on the location.

Once "Spudder Rig" has left the location, The "big Drilling Rig" will be on location within 90 days to drill each well in the Pad as batch drilling operations.

ConocoPhillips, Golden Spur 36 COM W1 1H

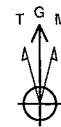
Attachments:

- Attachment#1: Directional Plan.
- Attachment#2: Casing & Cement Wellbore Schematic
- Attachment#3: Wellhead Schematics
- Attachment #4: Choke & BOPE Schematics.
- Attachment #5: Special (Premium) Connections
- Attachment #6: Flex Hose Documentation.
- Attachment #7: Spudder Rig Layout



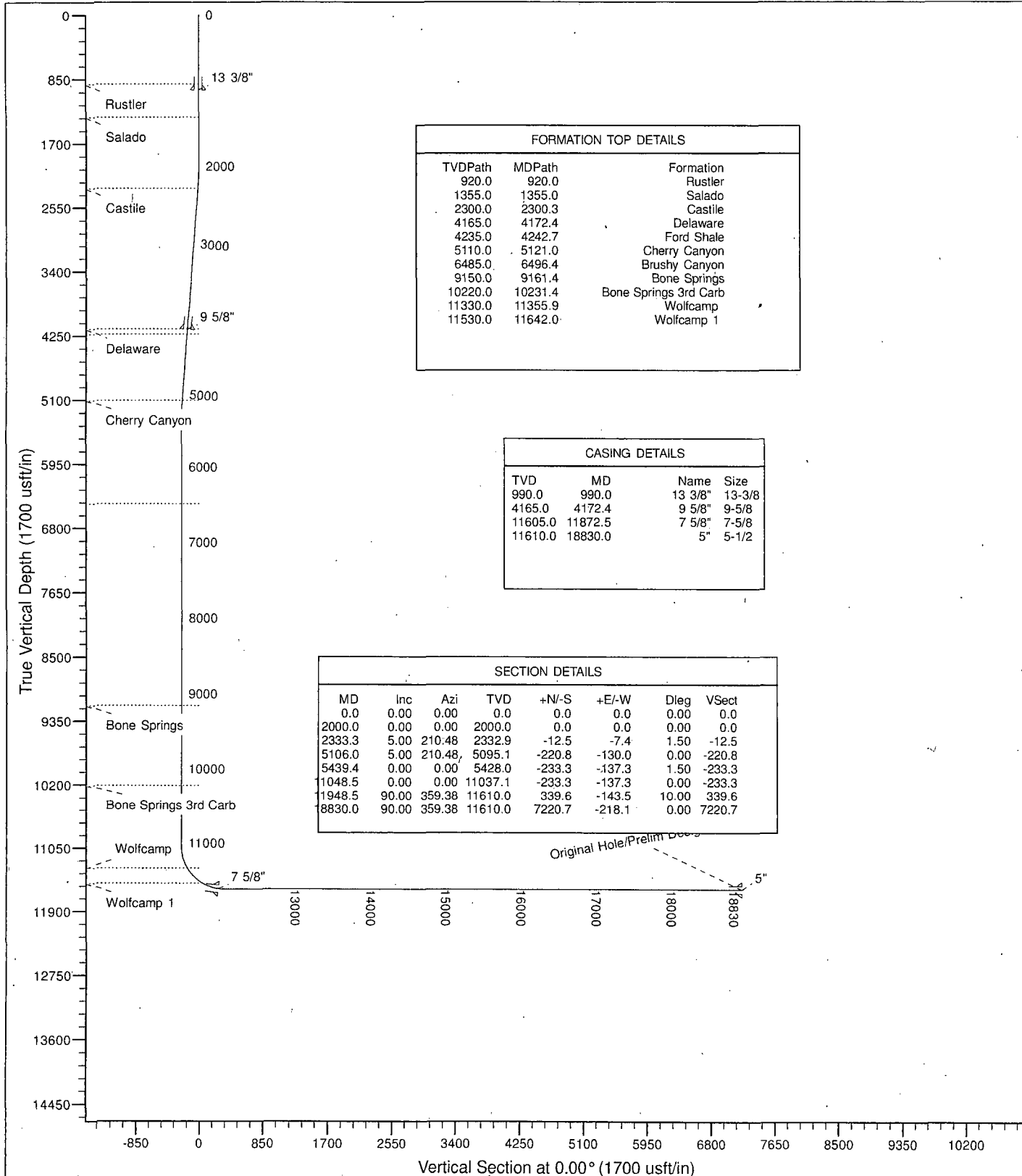
ConocoPhillips MCBU
Permian Delaware Hz New Mexico
GOLDEN SPUR 36 COM W1 1H - PS
Golden Spur 36 COM W1 1H

Original Hole
Plan: Prelim Design 1 (Golden Spur 36 COM W1 1H/Original Hole)
WELL @ 3171.0usft (Original Well Elev)
US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Mexico East 3001



Azinuths to Grid North
True North: -0.32°
Magnetic North: 7.01°

Magnetic Field
Strength: 48019.4uT
Dip Angle: 59.85°
Date: 5/13/2015
Model: BGGM2014



ConocoPhillips MCBU

**Permian Delaware Hz New Mexico
GOLDEN SPUR 36 COM W1 1H - PS
Golden Spur 36 COM W1 1H**

Original Hole

Plan: Prelim Design 1

Standard Planning Report

14 May, 2015

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site GOLDEN SPUR 36 COM W1 1H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3171.0usft (Original Well Elev)
Project:	Permian Delaware Hz New Mexico	MD Reference:	WELL @ 3171.0usft (Original Well Elev)
Site:	GOLDEN SPUR 36 COM W1 1H - PS	North Reference:	Grid
Well:	Golden Spur 36 COM W1 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Prelim Design 1		

Project:	Permian Delaware Hz New Mexico, Mexico		
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		

Site: GOLDEN SPUR 36 COM W1 1H - PS, Section 36 and Section 25					
Site Position:		Northings:	364,571.40 usft	Latitude:	32° 0' 3.090 N
From:	Map	Easting:	688,808.14 usft	Longitude:	103° 43' 27.350 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.32 °

Well	Golden Spur 36 COM W1 1H, Exploration - Horizontal					
Well Position	+N-S	0.0 usft	Northings:	364,571.40 usft	Latitude:	32° 0' 3.090 N
	+E-W	0.0 usft	Easting:	688,808.14 usft	Longitude:	103° 43' 27.350 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,146.0 usft

Wellbore:	Original Hole
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	5/13/2015	7.34	59.85	48,019

Design:	Prelim Design 1
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Audit Notes:					
Version:	1	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	0.00

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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,333.3	5.00	210.48	2,332.9	-12.5	-7.4	1.50	1.50	0.00	210.48	GS_36_W1_VT
5,106.0	5.00	210.48	5,095.1	-220.8	-130.0	0.00	0.00	0.00	0.00	
5,439.4	0.00	0.00	5,428.0	-233.3	-137.3	1.50	-1.50	0.00	180.00	
11,048.5	0.00	0.00	11,037.1	-233.3	-137.3	0.00	0.00	0.00	0.00	
11,948.5	90.00	359.38	11,610.0	339.6	-143.5	10.00	10.00	-0.07	359.38	
18,830.0	90.00	359.38	11,610.0	7,220.7	-218.1	0.00	0.00	0.00	0.00	GS_36_W1_1H_BHL

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site GOLDEN SPUR 36 COM W1 1H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3171.0usft (Original Well Elev)
Project:	Permian Delaware Hz New Mexico	MD Reference:	WELL @ 3171.0usft (Original Well Elev)
Site:	GOLDEN SPUR 36 COM W1 1H - PS	North Reference:	Grid
Well:	Golden Spur 36 COM W1 1H	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	Original Hole Prelim 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	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
920.0	0.00	0.00	920.0	0.0	0.0	0.0	0.00	0.00	0.00	
Rustler										
990.0	0.00	0.00	990.0	0.0	0.0	0.0	0.00	0.00	0.00	
13 3/8"										
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,355.0	0.00	0.00	1,355.0	0.0	0.0	0.0	0.00	0.00	0.00	
Salado										
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,100.0	1.50	210.48	2,100.0	-1.1	-0.7	-1.1	1.50	1.50	0.00	
2,200.0	3.00	210.48	2,199.9	-4.5	-2.7	-4.5	1.50	1.50	0.00	
2,300.0	4.50	210.48	2,299.7	-10.1	-6.0	-10.1	1.50	1.50	0.00	
2,300.3	4.50	210.48	2,300.0	-10.2	-6.0	-10.2	1.50	1.50	0.00	
Castile										
2,333.3	5.00	210.48	2,332.9	-12.5	-7.4	-12.5	1.50	1.50	0.00	
2,400.0	5.00	210.48	2,399.3	-17.5	-10.3	-17.5	0.00	0.00	0.00	
2,500.0	5.00	210.48	2,498.9	-25.0	-14.7	-25.0	0.00	0.00	0.00	
2,600.0	5.00	210.48	2,598.6	-32.6	-19.2	-32.6	0.00	0.00	0.00	
2,700.0	5.00	210.48	2,698.2	-40.1	-23.6	-40.1	0.00	0.00	0.00	
2,800.0	5.00	210.48	2,797.8	-47.6	-28.0	-47.6	0.00	0.00	0.00	
2,900.0	5.00	210.48	2,897.4	-55.1	-32.4	-55.1	0.00	0.00	0.00	
3,000.0	5.00	210.48	2,997.0	-62.6	-36.8	-62.6	0.00	0.00	0.00	
3,100.0	5.00	210.48	3,096.7	-70.1	-41.3	-70.1	0.00	0.00	0.00	
3,200.0	5.00	210.48	3,196.3	-77.6	-45.7	-77.6	0.00	0.00	0.00	
3,300.0	5.00	210.48	3,295.9	-85.1	-50.1	-85.1	0.00	0.00	0.00	
3,400.0	5.00	210.48	3,395.5	-92.6	-54.5	-92.6	0.00	0.00	0.00	
3,500.0	5.00	210.48	3,495.1	-100.2	-59.0	-100.2	0.00	0.00	0.00	
3,600.0	5.00	210.48	3,594.8	-107.7	-63.4	-107.7	0.00	0.00	0.00	
3,700.0	5.00	210.48	3,694.4	-115.2	-67.8	-115.2	0.00	0.00	0.00	
3,800.0	5.00	210.48	3,794.0	-122.7	-72.2	-122.7	0.00	0.00	0.00	
3,900.0	5.00	210.48	3,893.6	-130.2	-76.6	-130.2	0.00	0.00	0.00	
4,000.0	5.00	210.48	3,993.2	-137.7	-81.1	-137.7	0.00	0.00	0.00	
4,100.0	5.00	210.48	4,092.9	-145.2	-85.5	-145.2	0.00	0.00	0.00	
4,172.4	5.00	210.48	4,165.0	-150.7	-88.7	-150.7	0.00	0.00	0.00	
Delaware - 9 5/8"										

ConocoPhillips

Planning Report

Database	EDM Central Planning	Local Co-ordinate Reference	Site GOLDEN SPUR 36 COM W1 1H - PS
Company	ConocoPhillips MCBU	TVD Reference	WELL @ 3171.0usft (Original Well Elev)
Project	Permian Delaware Hz New Mexico	MD Reference	WELL @ 3171.0usft (Original Well Elev)
Site	GOLDEN SPUR 36 COM W1 1H - PS	North Reference	Grid
Well	Golden Spur 36 COM W1 1H	Survey Calculation Method	Minimum Curvature
Wellbore	Original Hole		
Design	Prelim 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)
4,200.0	5.00	210.48	4,192.5	-152.7	-89.9	-152.7	0.00	0.00	0.00
4,242.7	5.00	210.48	4,235.0	-155.9	-91.8	-155.9	0.00	0.00	0.00
Ford Shale									
4,300.0	5.00	210.48	4,292.1	-160.2	-94.3	-160.2	0.00	0.00	0.00
4,400.0	5.00	210.48	4,391.7	-167.8	-98.7	-167.8	0.00	0.00	0.00
4,500.0	5.00	210.48	4,491.3	-175.3	-103.2	-175.3	0.00	0.00	0.00
4,600.0	5.00	210.48	4,591.0	-182.8	-107.6	-182.8	0.00	0.00	0.00
4,700.0	5.00	210.48	4,690.6	-190.3	-112.0	-190.3	0.00	0.00	0.00
4,800.0	5.00	210.48	4,790.2	-197.8	-116.4	-197.8	0.00	0.00	0.00
4,900.0	5.00	210.48	4,889.8	-205.3	-120.8	-205.3	0.00	0.00	0.00
5,000.0	5.00	210.48	4,989.4	-212.8	-125.3	-212.8	0.00	0.00	0.00
5,100.0	5.00	210.48	5,089.0	-220.3	-129.7	-220.3	0.00	0.00	0.00
5,106.0	5.00	210.48	5,095.1	-220.8	-130.0	-220.8	0.00	0.00	0.00
5,121.0	4.78	210.48	5,110.0	-221.9	-130.6	-221.9	1.50	-1.50	0.00
Cherry Canyon									
5,200.0	3.59	210.48	5,188.8	-226.9	-133.5	-226.9	1.50	-1.50	0.00
5,300.0	2.09	210.48	5,288.6	-231.1	-136.0	-231.1	1.50	-1.50	0.00
5,400.0	0.59	210.48	5,388.6	-233.1	-137.2	-233.1	1.50	-1.50	0.00
5,439.4	0.00	0.00	5,428.0	-233.3	-137.3	-233.3	1.50	-1.50	0.00
5,500.0	0.00	0.00	5,488.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
5,600.0	0.00	0.00	5,588.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
5,700.0	0.00	0.00	5,688.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
5,800.0	0.00	0.00	5,788.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
5,900.0	0.00	0.00	5,888.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,000.0	0.00	0.00	5,988.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,100.0	0.00	0.00	6,088.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,200.0	0.00	0.00	6,188.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,300.0	0.00	0.00	6,288.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,400.0	0.00	0.00	6,388.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,496.4	0.00	0.00	6,485.0	-233.3	-137.3	-233.3	0.00	0.00	0.00
Brushy Canyon									
6,500.0	0.00	0.00	6,488.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,600.0	0.00	0.00	6,588.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,700.0	0.00	0.00	6,688.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,800.0	0.00	0.00	6,788.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
6,900.0	0.00	0.00	6,888.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,000.0	0.00	0.00	6,988.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,100.0	0.00	0.00	7,088.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,200.0	0.00	0.00	7,188.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,300.0	0.00	0.00	7,288.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,400.0	0.00	0.00	7,388.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,500.0	0.00	0.00	7,488.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,600.0	0.00	0.00	7,588.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,700.0	0.00	0.00	7,688.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,800.0	0.00	0.00	7,788.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,888.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,988.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,100.0	0.00	0.00	8,088.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,200.0	0.00	0.00	8,188.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,288.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,388.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,488.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,588.6	-233.3	-137.3	-233.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site GOLDEN SPUR 36 COM W1 1H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3171.0usft (Original Well Elev)
Project:	Permian Delaware Hz New Mexico	MD Reference:	WELL @ 3171.0usft (Original Well Elev)
Site:	GOLDEN SPUR 36 COM W1 1H - PS	North Reference:	Grid
Well:	Golden Spur 36 COM W1 1H	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	Original Hole Prelim 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)
8,700.0	0.00	0.00	8,688.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,788.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,888.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,988.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,100.0	0.00	0.00	9,088.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,161.4	0.00	0.00	9,150.0	-233.3	-137.3	-233.3	0.00	0.00	0.00
Bone Springs									
9,200.0	0.00	0.00	9,188.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,288.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,388.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,488.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,588.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,688.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,788.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,888.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,988.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,100.0	0.00	0.00	10,088.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,200.0	0.00	0.00	10,188.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,231.4	0.00	0.00	10,220.0	-233.3	-137.3	-233.3	0.00	0.00	0.00
Bone Springs 3rd Carb									
10,300.0	0.00	0.00	10,288.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,388.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,488.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,588.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,688.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,788.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,888.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,988.6	-233.3	-137.3	-233.3	0.00	0.00	0.00
11,048.5	0.00	0.00	11,037.1	-233.3	-137.3	-233.3	0.00	0.00	0.00
11,100.0	5.15	359.38	11,088.5	-231.0	-137.3	-231.0	10.00	10.00	0.00
11,200.0	15.15	359.38	11,186.8	-213.4	-137.5	-213.4	10.00	10.00	0.00
11,300.0	25.15	359.38	11,280.6	-179.0	-137.9	-179.0	10.00	10.00	0.00
11,355.9	30.75	359.38	11,330.0	-152.8	-138.2	-152.8	10.00	10.00	0.00
Wolfcamp									
11,400.0	35.15	359.38	11,367.0	-128.8	-138.5	-128.8	10.00	10.00	0.00
11,500.0	45.15	359.38	11,443.3	-64.4	-139.2	-64.4	10.00	10.00	0.00
11,600.0	55.15	359.38	11,507.3	12.3	-140.0	12.3	10.00	10.00	0.00
11,642.0	59.35	359.38	11,530.0	47.6	-140.4	47.6	10.00	10.00	0.00
Wolfcamp 1									
11,700.0	65.15	359.38	11,557.0	98.9	-140.9	98.9	10.00	10.00	0.00
11,800.0	75.15	359.38	11,590.9	192.8	-141.9	192.8	10.00	10.00	0.00
11,872.5	82.40	359.38	11,605.0	263.9	-142.7	263.9	10.00	10.00	0.00
7 5/8"									
11,900.0	85.15	359.38	11,608.0	291.2	-143.0	291.2	10.00	10.00	0.00
11,948.5	90.00	359.38	11,610.0	339.6	-143.5	339.6	10.00	10.00	0.00
12,000.0	90.00	359.38	11,610.0	391.1	-144.1	391.1	0.00	0.00	0.00
12,100.0	90.00	359.38	11,610.0	491.1	-145.2	491.1	0.00	0.00	0.00
12,200.0	90.00	359.38	11,610.0	591.1	-146.3	591.1	0.00	0.00	0.00
12,300.0	90.00	359.38	11,610.0	691.1	-147.3	691.1	0.00	0.00	0.00
12,400.0	90.00	359.38	11,610.0	791.1	-148.4	791.1	0.00	0.00	0.00
12,500.0	90.00	359.38	11,610.0	891.1	-149.5	891.1	0.00	0.00	0.00
12,600.0	90.00	359.38	11,610.0	991.1	-150.6	991.1	0.00	0.00	0.00
12,700.0	90.00	359.38	11,610.0	1,091.1	-151.7	1,091.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site GOLDEN SPUR 36 COM W1 1H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3171.0usft (Original Well Elev)
Project:	Permian Delaware Hz New Mexico	MD Reference:	WELL @ 3171.0usft (Original Well Elev)
Site:	GOLDEN SPUR 36 COM W1 1H - PS	North Reference:	Grid
Well:	Golden Spur 36 COM W1 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Prelim 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)
12,800.0	90.00	359.38	11,610.0	1,191.1	-152.8	1,191.1	0.00	0.00	0.00
12,900.0	90.00	359.38	11,610.0	1,291.1	-153.8	1,291.1	0.00	0.00	0.00
13,000.0	90.00	359.38	11,610.0	1,391.1	-154.9	1,391.1	0.00	0.00	0.00
13,100.0	90.00	359.38	11,610.0	1,491.1	-156.0	1,491.1	0.00	0.00	0.00
13,200.0	90.00	359.38	11,610.0	1,591.1	-157.1	1,591.1	0.00	0.00	0.00
13,300.0	90.00	359.38	11,610.0	1,691.1	-158.2	1,691.1	0.00	0.00	0.00
13,400.0	90.00	359.38	11,610.0	1,791.1	-159.2	1,791.1	0.00	0.00	0.00
13,500.0	90.00	359.38	11,610.0	1,891.1	-160.3	1,891.1	0.00	0.00	0.00
13,600.0	90.00	359.38	11,610.0	1,991.0	-161.4	1,991.0	0.00	0.00	0.00
13,700.0	90.00	359.38	11,610.0	2,091.0	-162.5	2,091.0	0.00	0.00	0.00
13,800.0	90.00	359.38	11,610.0	2,191.0	-163.6	2,191.0	0.00	0.00	0.00
13,900.0	90.00	359.38	11,610.0	2,291.0	-164.7	2,291.0	0.00	0.00	0.00
14,000.0	90.00	359.38	11,610.0	2,391.0	-165.7	2,391.0	0.00	0.00	0.00
14,100.0	90.00	359.38	11,610.0	2,491.0	-166.8	2,491.0	0.00	0.00	0.00
14,200.0	90.00	359.38	11,610.0	2,591.0	-167.9	2,591.0	0.00	0.00	0.00
14,300.0	90.00	359.38	11,610.0	2,691.0	-169.0	2,691.0	0.00	0.00	0.00
14,400.0	90.00	359.38	11,610.0	2,791.0	-170.1	2,791.0	0.00	0.00	0.00
14,500.0	90.00	359.38	11,610.0	2,891.0	-171.2	2,891.0	0.00	0.00	0.00
14,600.0	90.00	359.38	11,610.0	2,991.0	-172.2	2,991.0	0.00	0.00	0.00
14,700.0	90.00	359.38	11,610.0	3,091.0	-173.3	3,091.0	0.00	0.00	0.00
14,800.0	90.00	359.38	11,610.0	3,191.0	-174.4	3,191.0	0.00	0.00	0.00
14,900.0	90.00	359.38	11,610.0	3,291.0	-175.5	3,291.0	0.00	0.00	0.00
15,000.0	90.00	359.38	11,610.0	3,391.0	-176.6	3,391.0	0.00	0.00	0.00
15,100.0	90.00	359.38	11,610.0	3,491.0	-177.7	3,491.0	0.00	0.00	0.00
15,200.0	90.00	359.38	11,610.0	3,591.0	-178.7	3,591.0	0.00	0.00	0.00
15,300.0	90.00	359.38	11,610.0	3,690.9	-179.8	3,690.9	0.00	0.00	0.00
15,400.0	90.00	359.38	11,610.0	3,790.9	-180.9	3,790.9	0.00	0.00	0.00
15,500.0	90.00	359.38	11,610.0	3,890.9	-182.0	3,890.9	0.00	0.00	0.00
15,600.0	90.00	359.38	11,610.0	3,990.9	-183.1	3,990.9	0.00	0.00	0.00
15,700.0	90.00	359.38	11,610.0	4,090.9	-184.2	4,090.9	0.00	0.00	0.00
15,800.0	90.00	359.38	11,610.0	4,190.9	-185.2	4,190.9	0.00	0.00	0.00
15,900.0	90.00	359.38	11,610.0	4,290.9	-186.3	4,290.9	0.00	0.00	0.00
16,000.0	90.00	359.38	11,610.0	4,390.9	-187.4	4,390.9	0.00	0.00	0.00
16,100.0	90.00	359.38	11,610.0	4,490.9	-188.5	4,490.9	0.00	0.00	0.00
16,200.0	90.00	359.38	11,610.0	4,590.9	-189.6	4,590.9	0.00	0.00	0.00
16,300.0	90.00	359.38	11,610.0	4,690.9	-190.7	4,690.9	0.00	0.00	0.00
16,400.0	90.00	359.38	11,610.0	4,790.9	-191.7	4,790.9	0.00	0.00	0.00
16,500.0	90.00	359.38	11,610.0	4,890.9	-192.8	4,890.9	0.00	0.00	0.00
16,600.0	90.00	359.38	11,610.0	4,990.9	-193.9	4,990.9	0.00	0.00	0.00
16,700.0	90.00	359.38	11,610.0	5,090.9	-195.0	5,090.9	0.00	0.00	0.00
16,800.0	90.00	359.38	11,610.0	5,190.9	-196.1	5,190.9	0.00	0.00	0.00
16,900.0	90.00	359.38	11,610.0	5,290.9	-197.2	5,290.9	0.00	0.00	0.00
17,000.0	90.00	359.38	11,610.0	5,390.8	-198.2	5,390.8	0.00	0.00	0.00
17,100.0	90.00	359.38	11,610.0	5,490.8	-199.3	5,490.8	0.00	0.00	0.00
17,200.0	90.00	359.38	11,610.0	5,590.8	-200.4	5,590.8	0.00	0.00	0.00
17,300.0	90.00	359.38	11,610.0	5,690.8	-201.5	5,690.8	0.00	0.00	0.00
17,400.0	90.00	359.38	11,610.0	5,790.8	-202.6	5,790.8	0.00	0.00	0.00
17,500.0	90.00	359.38	11,610.0	5,890.8	-203.6	5,890.8	0.00	0.00	0.00
17,600.0	90.00	359.38	11,610.0	5,990.8	-204.7	5,990.8	0.00	0.00	0.00
17,700.0	90.00	359.38	11,610.0	6,090.8	-205.8	6,090.8	0.00	0.00	0.00
17,800.0	90.00	359.38	11,610.0	6,190.8	-206.9	6,190.8	0.00	0.00	0.00
17,900.0	90.00	359.38	11,610.0	6,290.8	-208.0	6,290.8	0.00	0.00	0.00
18,000.0	90.00	359.38	11,610.0	6,390.8	-209.1	6,390.8	0.00	0.00	0.00
18,100.0	90.00	359.38	11,610.0	6,490.8	-210.1	6,490.8	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site GOLDEN SPUR 36 COM W1 1H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3171.0usft (Original Well Elev)
Project:	Permian Delaware Hz New Mexico	MD Reference:	WELL @ 3171.0usft (Original Well Elev)
Site:	GOLDEN SPUR 36 COM W1 1H - PS	North Reference:	Grid
Well:	Golden Spur 36 COM W1 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Prelim 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)
18,200.0	90.00	359.38	11,610.0	6,590.8	-211.2	6,590.8	0.00	0.00	0.00
18,300.0	90.00	359.38	11,610.0	6,690.8	-212.3	6,690.8	0.00	0.00	0.00
18,400.0	90.00	359.38	11,610.0	6,790.8	-213.4	6,790.8	0.00	0.00	0.00
18,500.0	90.00	359.38	11,610.0	6,890.8	-214.5	6,890.8	0.00	0.00	0.00
18,600.0	90.00	359.38	11,610.0	6,990.8	-215.6	6,990.8	0.00	0.00	0.00
18,700.0	90.00	359.38	11,610.0	7,090.7	-216.6	7,090.7	0.00	0.00	0.00
18,800.0	90.00	359.38	11,610.0	7,190.7	-217.7	7,190.7	0.00	0.00	0.00
18,830.0	90.00	359.38	11,610.0	7,220.7	-218.1	7,220.7	0.00	0.00	0.00
5"									

Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
GS_36_W1_VT	- plan misses target center by 270.7usft at 20.0usft MD (20.0 TVD, 0.0 N, 0.0 E)	0.00	0.00	20.0	-233.3	-137.3	364,338.07	688,670.81	32° 0' 0.788 N 103° 43' 28.960 W
GS_36_W1_1H_BHL	- plan hits target center	0.00	0.00	11,610.0	7,220.7	-218.1	371,792.14	688,590.09	32° 1' 14.560 N 103° 43' 29.410 W
	- Point								

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
990.0	990.0	13 3/8"	13-3/8	17-1/2	
4,172.4	4,165.0	9 5/8"	9-5/8	12-1/4	
11,872.5	11,605.0	7 5/8"	7-5/8	8-3/4	
18,830.0	11,610.0	5"	5-1/2	6-3/4	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,172.4	4,165.0	Delaware			
10,231.4	10,220.0	Bone Springs 3rd Carb			
11,355.9	11,330.0	Wolfcamp			
920.0	920.0	Rustler			
5,121.0	5,110.0	Cherry Canyon			
1,355.0	1,355.0	Salado			
9,161.4	9,150.0	Bone Springs			
2,300.3	2,300.0	Castile			
11,642.0	11,530.0	Wolfcamp 1			
6,496.4	6,485.0	Brushy Canyon			
4,242.7	4,235.0	Ford Shale			

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Site GOLDEN SPUR 36 COM W1 1H - PS
Company:	ConocoPhillips MCBU	TVD Reference:	WELL @ 3171.0usft (Original Well Elev)
Project:	Permian Delaware Hz New Mexico	MD Reference:	WELL @ 3171.0usft (Original Well Elev)
Site:	GOLDEN SPUR 36 COM W1 1H - PS	North Reference:	Grid
Well:	Golden Spur 36 COM W1 1H	Survey/Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Prelim Design 1		

Golden Spur 36 W1 - Batch Drilling Sequence

► TENTATIVE BATCH DRILLING OPERATION PLAN:

1. ALL SURFACE 13-3/8" CASINGS PRE-SET.
2. Golden Spur Com W1 1H. 7-5/8" CASING – OBM..
3. Golden Spur Com W1 2H. 7-5/8" CASING – OBM.

"INTERMEDIATE 1" BATCH

4. Golden Spur Com W1 2H. 5" CASING – OBM.
5. Golden Spur Com W1 1H. 5" CASING – OBM.

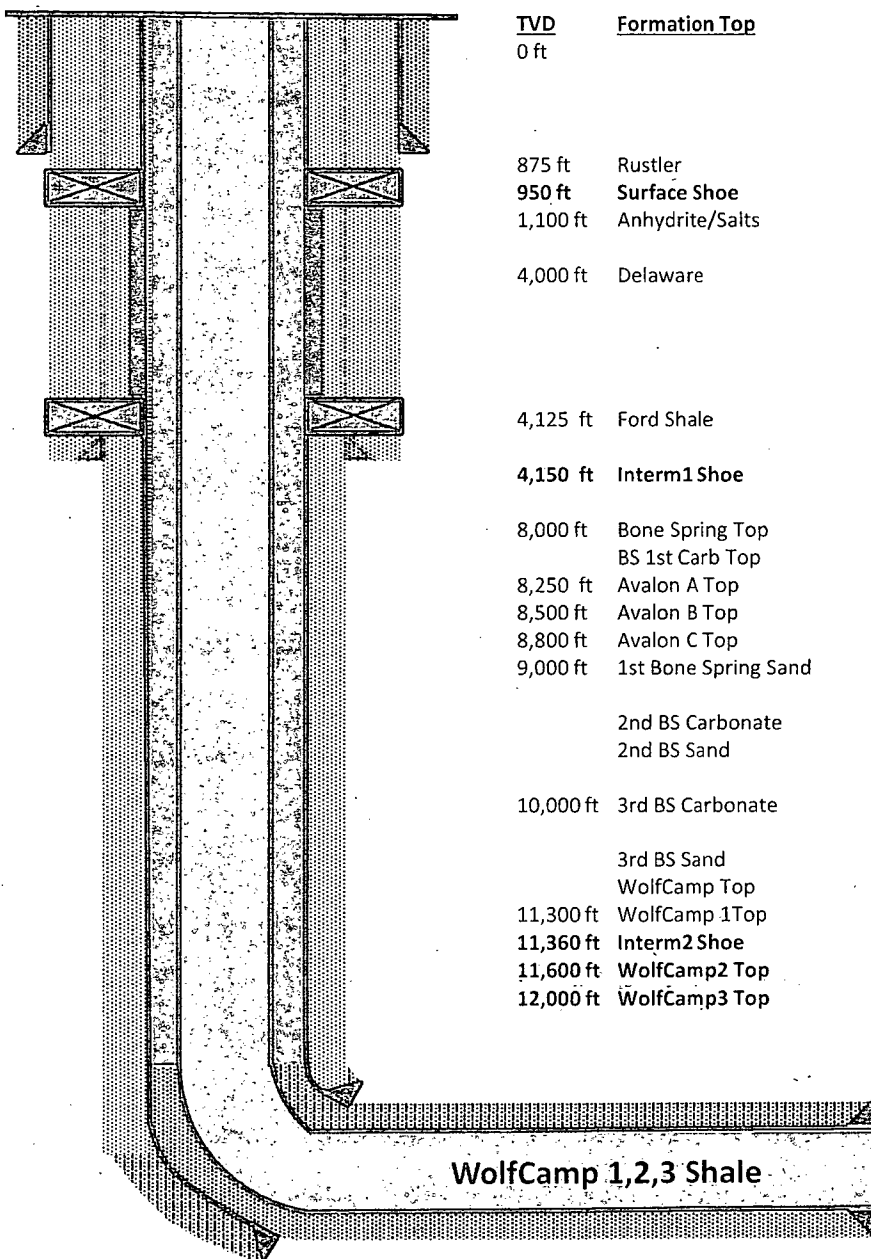
"PRODUCTION" BATCH

6. RIG RELEASE.

NOTE: CASING CONTINGENCY IN CASE HOLE ISSUES ARE PRESENT

1. 9-5/8" 40# L80 BTC IN A 12-1/4" HOLE SIZE
2. 7-5/8" 29.7# WEDGE523 P110 IN A 8-3/4" HOLE SIZE

Attachment #2– Option not to run 9-5/8" Csg



Surface Section:

- ▣ Objective: Protect fresh water horizons.
- ▣ Drill 17-1/2" hole to +/- 950 ft. "Rustler"
- ▣ Mud weight: 8.6 – 9.1 ppg FW-Native Mud
- ▣ **Set 13-3/8" 54.5# J-55 BTC casing.**
- ▣ Cement to surface.

Intermediate1 Section (Only for Contingency):

- ▣ **Objective: Isolate the Salado Salt and Delaware Sand interval.**
- ▣ **Drill 12-1/4" hole to +/- 4,150 ft. "Ford Shale"**
- ▣ **Mud weight: 10.0 ppg Brine.**
- ▣ **Set 9-5/8" 40# L-80 BTC casing.**
- ▣ **Cement to surface.**

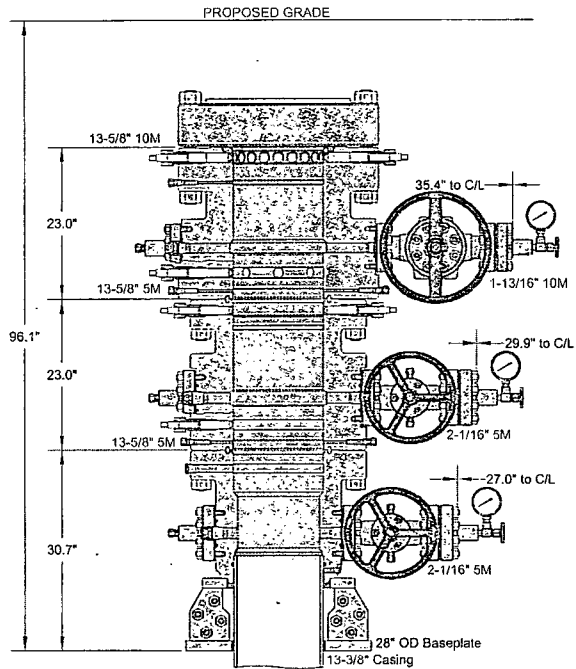
Intermediate2 Section:

- ▣ Objective: Isolate depleted/weak formations above WC1.
- ▣ Drill 8-3/4" hole to +/- 11,360 ft. 110'-120' inside WC1 Top.
- ▣ **Mud weight: 8.9 – 10.5 ppg Brine or OBM w/ 25 ppb WBS**
- ▣ **Set 7-5/8" 29.7# P-110 Tenaris W523 casing.**
- ▣ Cement to surface.
- ▣ 2 or 3-Stage Contingency with 2ea. Packer/Stage Collars
- ▣ Bond Coat ~ 3000' of Csg covering the Delaware Sands

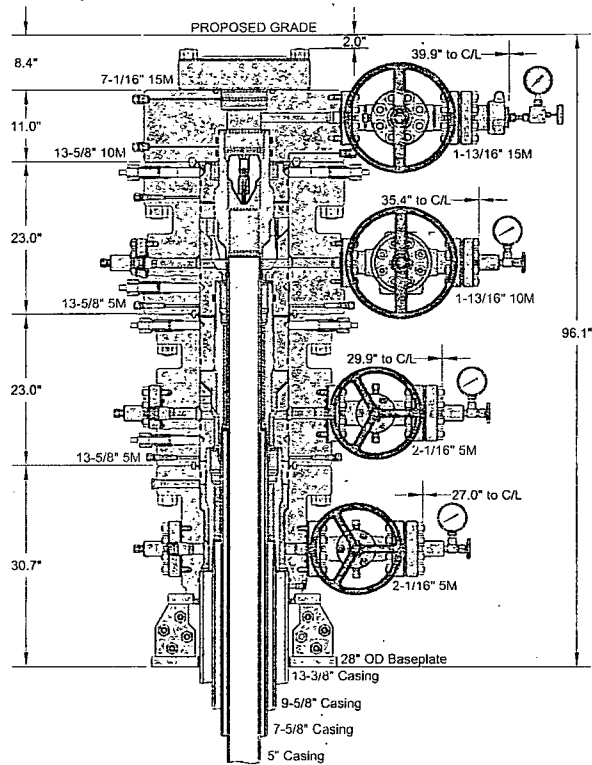
Production Section:

- ▣ Objective: Provide zonal isolation of production interval and provide medium for stimulation.
- ▣ Drill 6-3/4" hole to +/- 18,000ft – 20,000ft. "Production TD"
- ▣ Mud Weight: 13.5 – 15.2 ppg OBM.
- ▣ **Set 5" 18# P-110 TenBlue/TXP casing.**
- ▣ Cement lap 500 ft above previous shoe (near KOP).

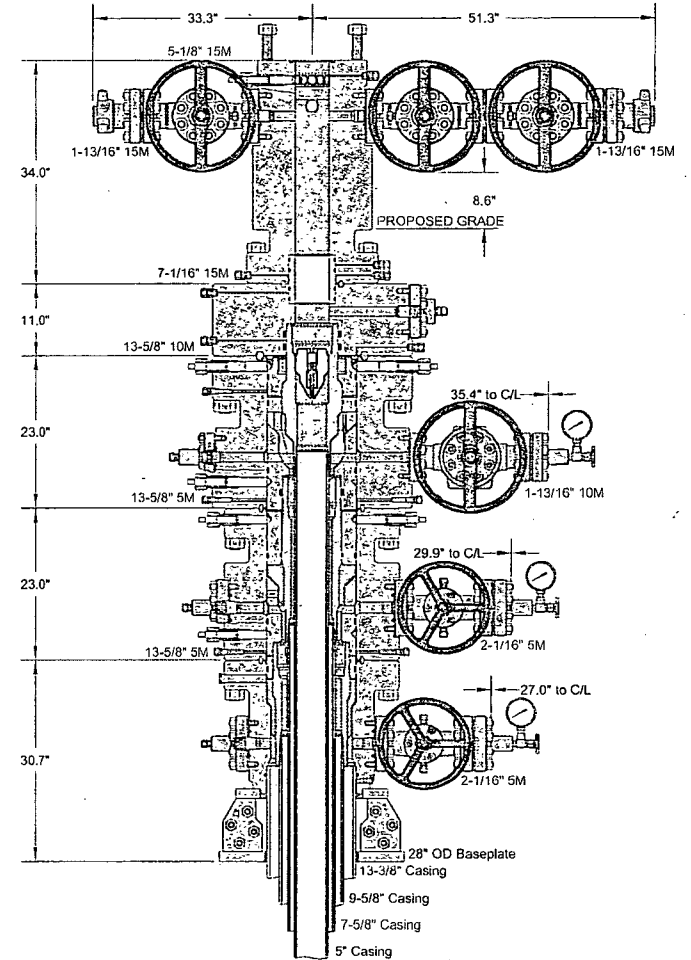
Attachment #3



SPUD CONFIGURATION



DRILL & SKID CONFIGURATION



COMPLETION CONFIGURATION

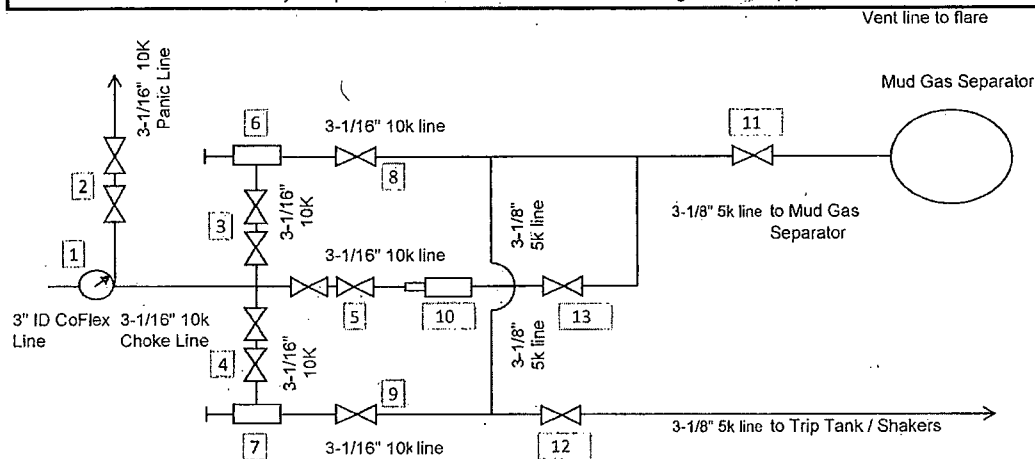
INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

CACTUS WELLHEAD LLC 13-3/8" x 9-5/8" x 7-5/8" x 5" 5M MBS2 Wellhead System With 13-5/8" 10M x 7-1/16" 15M DBLHPS DSPA And 7-1/16" 15M x 5-1/8" 15M CMT-FB-EN Tubing Head, 34" Tall	CONOCOPHILLIPS 4 STRING CONFIGURATION		
	DRAWN	THH	23FEB15
	APPRV		
	DRAWING NO.		ODE0000491

Attachment # 4

CHOKE MANIFOLD ARRANGEMENT - HP486

10M System per Onshore Oil and Gas Order No. 2 utilizing 5M/10M Equipment



All Tees must be Targeted

Item	Description
1	Pressure Gauge
2	2 Gate Valves, 3-1/16" 10M
3	2 Gate Valves, 3-1/16" 10M
4	2 Gate Valves, 3-1/16" 10M
5	2 Gate Valves, 3-1/16" 10M
6	Upper Manual Adjustable Choke, 4-1/16", 10M
7	Lower Manual Adjustable Choke, 4-1/16", 10M
8	Gate Valve, 3-1/16" 10M
9	Gate Valve, 3-1/16" 10M
10	Remote Controlled Hydraulic Adjustable Choke, 4-1/16", 10M
11	Gate Valve, 3-1/8" 5M
12	Gate Valve, 3-1/8" 5M
13	Gate Valve, 3-1/16" 10M

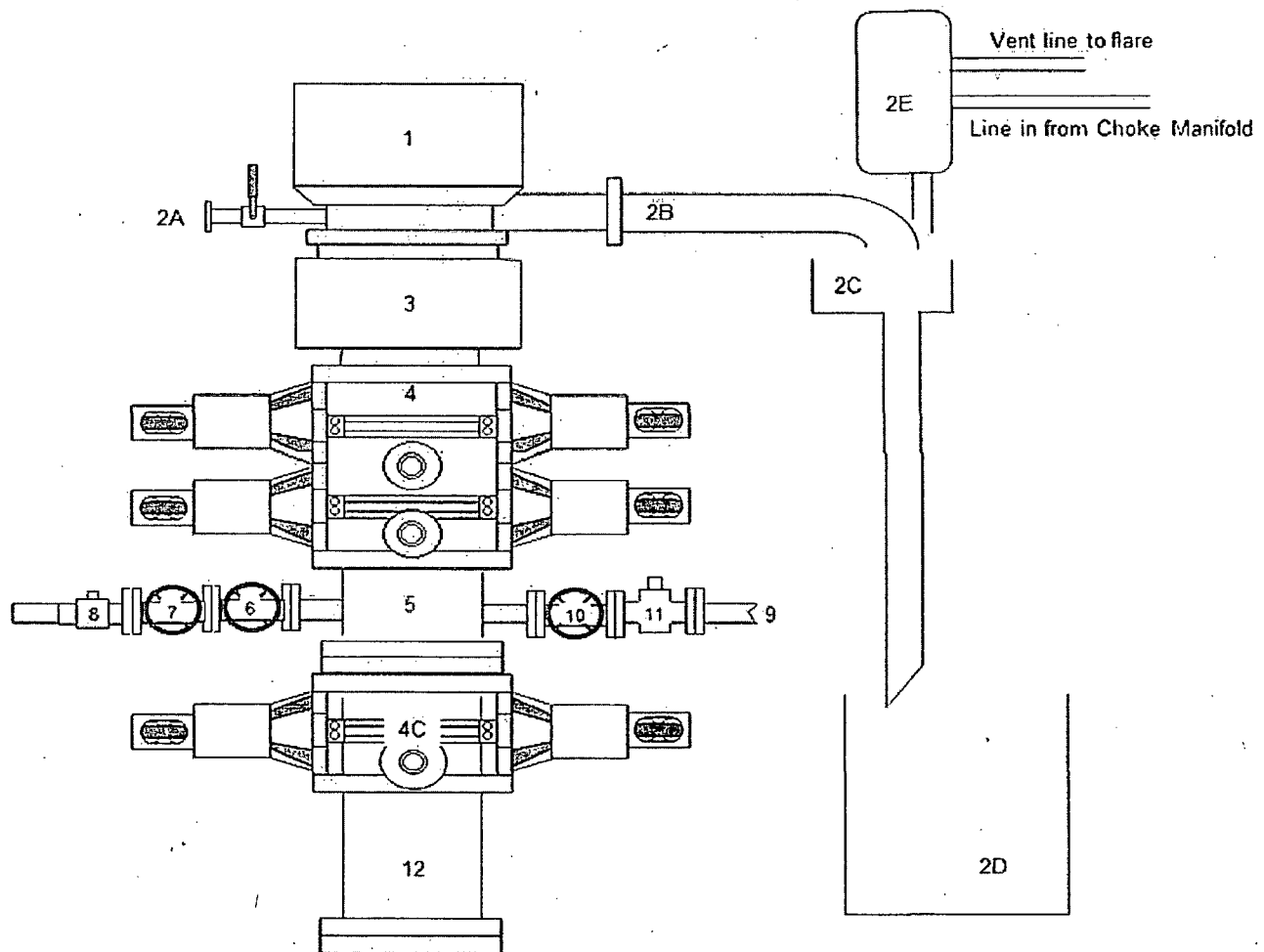
The 10M Choke Manifold & Valves will be tested to rated working pressure.

Drawn by:
James Chen, P.E.
Drilling Engineer, ConocoPhillips Company
Date: June 25th-2014

Attachment # 4

BLOWOUT PREVENTER ARRANGEMENT - H&P486

10M System per Onshore Oil and Gas Order No. 2 utilizing 10M Rated Equipment



Item	Description
1.	Rotating Head
2A	Fill up Line and Valve
2B	Flow Line (8")
2C	Shale Shakers and Centrifuges
2D	Cuttings Bins for Zero Discharge
2E	Mud Gas Separator with vent line to flare and return line to mud system
3	Annular Preventer (13-5/8", 10M)
4	Double Ram (13-5/8", 10M, Bline Ram bottom x Pipe Ram top)
5	Drilling Spool (13-5/8" 10M)
4C	Single Ram (13-5/8", 10M, Pipe Rams)
6	Kill Line Gate Valve, Inner (4-1/16", 10k psi WP)
7	Kill Line Gate Valve, Outer (4-1/16", 10k psi WP)
8	Kill Line Check Valve (4-1/16", 10k psi WP)
9	CoFlex hose Line (4-1/16", 10k psi WP)
10	Choke Line Gate Valve, Inner (4-1/16", 10k psi WP)
11	Choke Line Hydraulically Operated Gate Valve, Outer, (4-1/6" 10k psi WP HCR)
12	Drilling Spool Adapter (13-5/8", 10M)

Drawn by:
James Chen, P.E.
Drilling Engineer, ConocoPhillips Company
Date: June 25th-2014

Attachment # 5

January 28 2014

**Size:** 7.625 in.**Wall:** 0.375 in.**Weight:** 29.70 lbs/ft**Grade:** P110**Connection:** Wedge 523™**Casing/Tubing:** CAS**Min. Wall Thickness:** 87.5 %**PIPE BODY DATA**

GEOMETRY			
Nominal OD	7.625 in.	Nominal Weight	29.70 lbs/ft
Nominal ID	6.875 in.	Wall Thickness	0.375 in.
Plain End Weight	29.06 lbs/ft	Standard Drift Diameter	6.750 in.
		Special Drift Diameter	N/A
PERFORMANCE			
Body Yield Strength	940 x 1000 lbs	Internal Yield	9470 psi
Collapse	5350 psi	SMYS	110000 psi

WEDGE 523™ CONNECTION DATA

GEOMETRY			
Connection OD	7.752 in.	Connection ID	6.800 in.
Critical Section Area	6.021 sq. in.	Threads per in.	3.29
		Make-Up Loss	4.420 in.
PERFORMANCE			
Tension Efficiency	70.5 %	Joint Yield Strength	663 x 1000 lbs
Compression Strength	768 x 1000 lbs	Compression Efficiency	81.7 %
External Pressure Capacity	5350 psi	Internal Pressure Capacity	9470 psi
		Bending	47 °/100 ft

MAKE-UP TORQUES

Minimum	9900 ft-lbs	Target	11900 ft-lbs	Maximum (Δ)	17300 ft-lbs
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OPERATIONAL LIMIT TORQUES

Operating Torque	52000 ft-lbs	Yield Torque	78000 ft-lbs
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BLANKING DIMENSIONSBlanking Dimensions

* If you need to use torque values that are higher than the maximum indicated, please contact a local Tenaris technical sales representative.

October 21 2014



Connection: Blue®
Casing/Tubing: CAS
Coupling Option: REGULAR

Size: 5.000 in.
Wall: 0.362 in.
Weight: 18.00 lbs/ft
Grade: P110
Min. Wall Thickness: 87.5 %

PIPE BODY DATA

GEOMETRY			
Nominal OD	5.000 in.	Nominal Weight	18.00 lbs/ft
Nominal ID	4.276 in.	Wall Thickness	0.362 in.
Plain End Weight	17.95 lbs/ft	Standard Drift Diameter	4.151 in.
		Special Drift Diameter	N/A
PERFORMANCE			
Body Yield Strength	580 x 1000 lbs	Internal Yield	13940 psi
Collapse	13470 psi	SMYS	110000 psi

BLUE® CONNECTION DATA

GEOMETRY			
Connection OD	5.630 in.	Coupling Length	10.551 in.
Critical Section Area	5.275 sq. in.	Make-Up Loss	4.579 in.
		Connection ID	4.264 in.
		Threads per in.	5.00
PERFORMANCE			
Tension Efficiency	100 %	Joint Yield Strength	580 x 1000 lbs
Compression Efficiency	100 %	Compression Strength	580 x 1000 lbs
External Pressure Capacity	13470 psi	Internal Pressure Capacity	13940 psi
		Bending	101 °/100 ft

MAKE-UP TORQUES

Minimum	6400 ft-lbs	Target	7110 ft-lbs	Maximum	7820 ft-lbs
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OPERATIONAL LIMIT TORQUES

Operating Torque	ASK	Yield Torque	17600 ft-lbs
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SHOULDER TORQUES

Minimum	1070 ft-lbs	Maximum	6040 ft-lbs
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Blanking Dimensions

(1) Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per section 10.3 API 5C3 / ISO 10400 - 2007.

(2) Structural rating, pure bending to yield (i.e no other loads applied)

(3) Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at licensees@oilfield.tenaris.com. Torque values may be further reviewed.

For additional information, please contact us at contact-tenarishydril@tenaris.com

Attachment #6

Request for Variance

ConocoPhillips Company

Rig: If drilled with H&P 486

Date: 7/24/2014

Request:

ConocoPhillips Company respectfully requests a variance to install a flexible choke line instead of a straight choke line prescribed in the Onshore Order No. 2, III.A.2.b Minimum standards and enforcement provisions for choke manifold equipment. This request is made under the provision of Onshore Order No. 2, IV Variances from Minimum Standard. The rig to be used to drill this well is equipped with a flexible choke line if the requested variance is approved and determined that the proposed alternative meets the objectives of the applicable minimum standards.

Justifications:

The applicability of the flexible choke line will reduce the number of target tees required to make up from the choke valve to the choke manifold. This configuration will facilitate ease of rig up and BOPE Testing.

Attachments:

- Attachment # 1 Specification from Manufacturer
- Attachment # 2 Mill & Test Certification from Manufacturer

Contact Information:

Program Prepared by:

James Chen

SR Drilling Engineer

Phone (281) 206-5244

Cell (832) 768-1647

Date: 05 May 2014

December 18 2014



Connection: TenarisXP™ BTC
Casing/Tubing: CAS
Coupling Option: REGULAR

Size: 5.000 in.
Wall: 0.362 in.
Weight: 18.00 lbs/ft
Grade: P110
Min. Wall Thickness: 87.5 %

PIPE BODY DATA			
GEOMETRY			
Nominal OD	5.000 in.	Nominal Weight	18.00 lbs/ft
Nominal ID	4.276 in.	Wall Thickness	0.362 in.
Plain End Weight	17.95 lbs/ft	Standard Drift Diameter	4.151 in.
		Special Drift Diameter	N/A
PERFORMANCE			
Body Yield Strength	580 x 1000 lbs	Internal Yield	13940 psi
Collapse	13470 psi	SMYS	110000 psi
TENARISXP™ BTC CONNECTION DATA			
GEOMETRY			
Connection OD	5.720 in.	Coupling Length	9.325 in.
Critical Section Area	5.275 sq. in.	Threads per in.	5.00
		Connection ID	4.264 in.
		Make-Up Loss	4.141 in.
PERFORMANCE			
Tension Efficiency	100 %	Joint Yield Strength	580 x 1000 lbs
Structural Compression Efficiency	100 %	Structural Compression Strength	580 x 1000 lbs
External Pressure Capacity	13470 psi	Internal Pressure Capacity ⁽¹⁾	13940 psi
		Structural Bending ⁽²⁾	101 °/100 ft
ESTIMATED MAKE-UP TORQUES ⁽³⁾			
Minimum	N/A ft-lbs	Target	N/A ft-lbs
		Maximum	N/A ft-lbs
OPERATIONAL LIMIT TORQUES			
Operating Torque	ASK	Yield Torque	N/A ft-lbs
BLANKING DIMENSIONS			

BLANKING DIMENSIONS

Blanking Dimensions

Datasheet is also valid for Special Bevel option when applicable.

Attachment # 1

CONTITECH RUBBER Industrial Kft.	No: QC-DB- 45 / 2012 Page: 9 / 50
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Hose Data Sheet

CRI Order No.	516273
Customer	ContiTech Beattie Co.
Customer Order No	PO5438 STOCK
Item No.	3
Hose Type	Flexible Hose
Standard	API SPEC 16 C
Inside dia in inches	3
Length	35 ft
Type of coupling one end	FLANGE 4 1/16" API SPEC 6A TYPE 6BX FOR 10000 PSIBX155 RING GROOVE
Type of coupling other end	FLANGE 4 1/16" API SPEC 6A TYPE 6BX FOR 10000 PSI BX155 RING GROOVE
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	Steel outer wrap
Internal stripwound tube	No
Lining	OIL RESISTANT
Safety clamp	No
Lifting collar	No
Element C	No
Safety chain	No
Safety wire rope	No
Max design temperature [°C]	100
Min design temperature [°C]	-20
MBR operating [m]	1,60
MBR storage [m]	1,40
Type of packing	WOODEN CRATE ISPM-15

Variance Request

Attachment # 2



QC-DB- 45/2012

Page: 7/50

Fluid Technology

Quality Document

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 184	
PURCHASER: ContiTech Beattie Co.				P.O. N°: 005438	
CONTITECH ORDER N°: 518273		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 61477		NOMINAL / ACTUAL LENGTH: 10,67 m / 10,71 m			
W.P. 68,9 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 min.	
Pressure test with water at ambient temperature See attachment. (1 page) ↑ 10 mm = 10 Min. → 10 mm = 20 MPa					
COUPLINGS Type		Serial N°		Quality	
3" coupling with		10178 10173		AISI 4130	
4 1/16" 10K API Flange end				AISI 4130	
NOT DESIGNED FOR WELL TESTING				API Spec 16 C	
				Temperature rate: "B"	
All metal parts are Bewaco					
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated, inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.					
COUNTRY OF ORIGIN HUNGARY/EU					
Date:		Inspector		Quality Control	
30. January 2012.				ContiTech Rubber Industrial Kft. Quality Control Dept. (1)	

Continental Rubber and Plastic Kft.
 Budapest 110, Széchenyi 110/700
 PO Box 167 Széchenyi 110/700
 Hungary

Phone: +36 02 565 737
 Fax: +36 02 565 738
 e-mail: info@contitech.hu
 Internet: www.contitech.hu

The Court of Csongrád County as
 Registry Court
 Registry Court No. 10/06-12-002600
 EU VAT No. HU102600

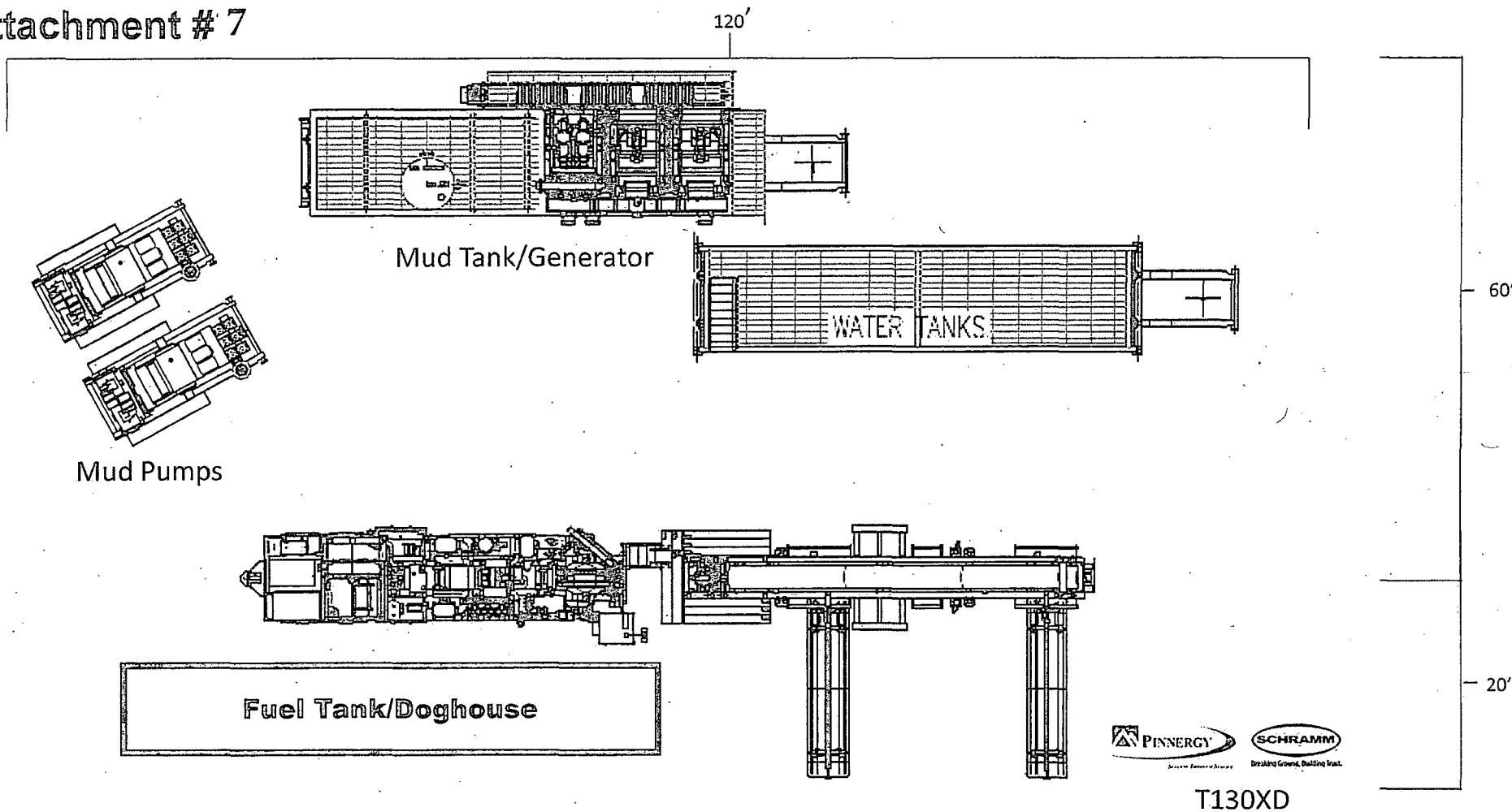
Bank data
 Csongrád Bank Zrt.
 Budapest
 1120405-20030003-00000000

Variance Request

ITEM NO.	DESCRIPTION	QTY	UNIT	TEST RESULT	REMARKS
1	100% INSPECTION	1	LOT	100%	
2	100% INSPECTION	1	LOT	100%	
3	100% INSPECTION	1	LOT	100%	
4	100% INSPECTION	1	LOT	100%	
5	100% INSPECTION	1	LOT	100%	
6	100% INSPECTION	1	LOT	100%	
7	100% INSPECTION	1	LOT	100%	
8	100% INSPECTION	1	LOT	100%	
9	100% INSPECTION	1	LOT	100%	
10	100% INSPECTION	1	LOT	100%	
11	100% INSPECTION	1	LOT	100%	
12	100% INSPECTION	1	LOT	100%	
13	100% INSPECTION	1	LOT	100%	
14	100% INSPECTION	1	LOT	100%	
15	100% INSPECTION	1	LOT	100%	
16	100% INSPECTION	1	LOT	100%	
17	100% INSPECTION	1	LOT	100%	
18	100% INSPECTION	1	LOT	100%	
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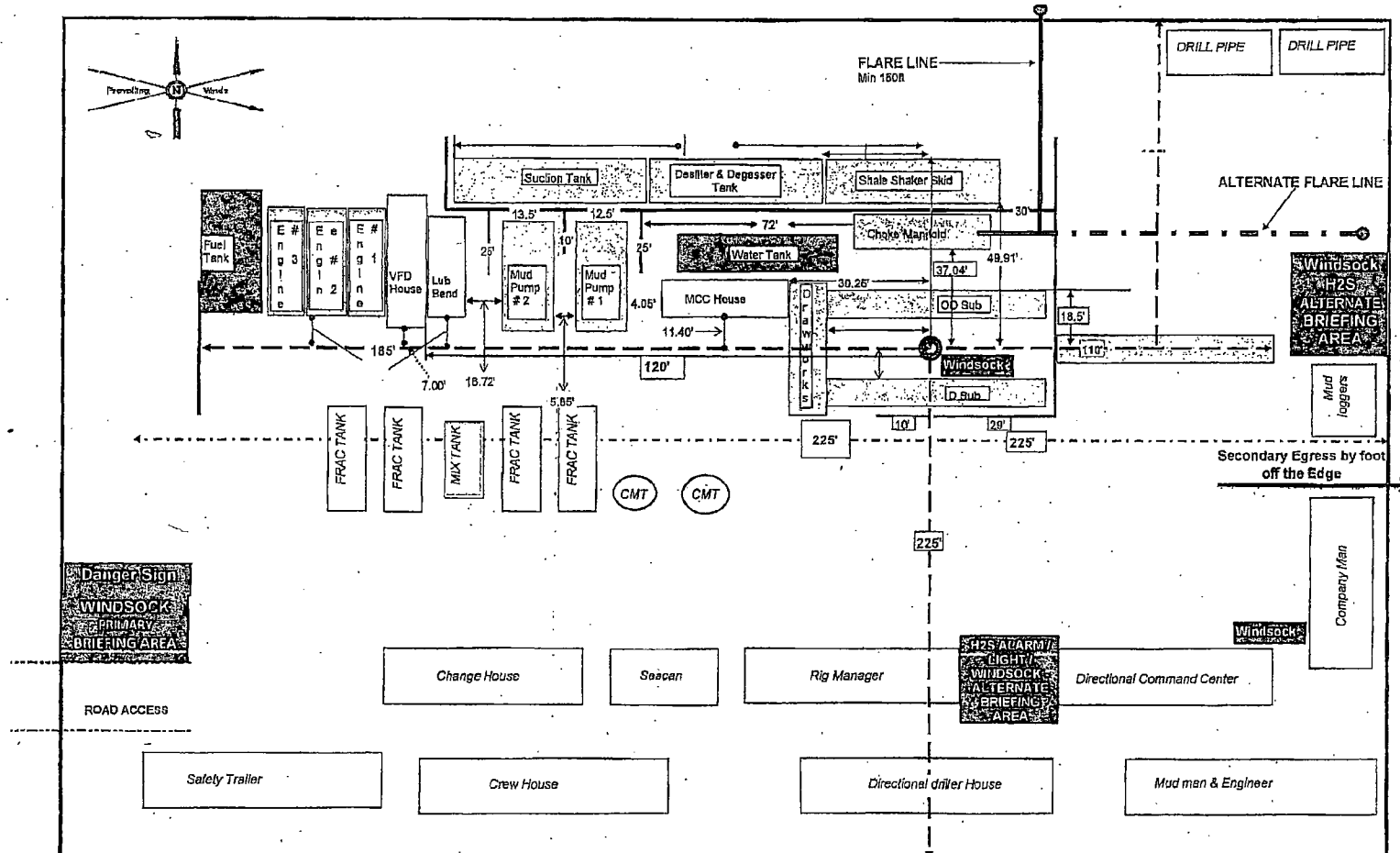

 Quality Control Dept.
 40

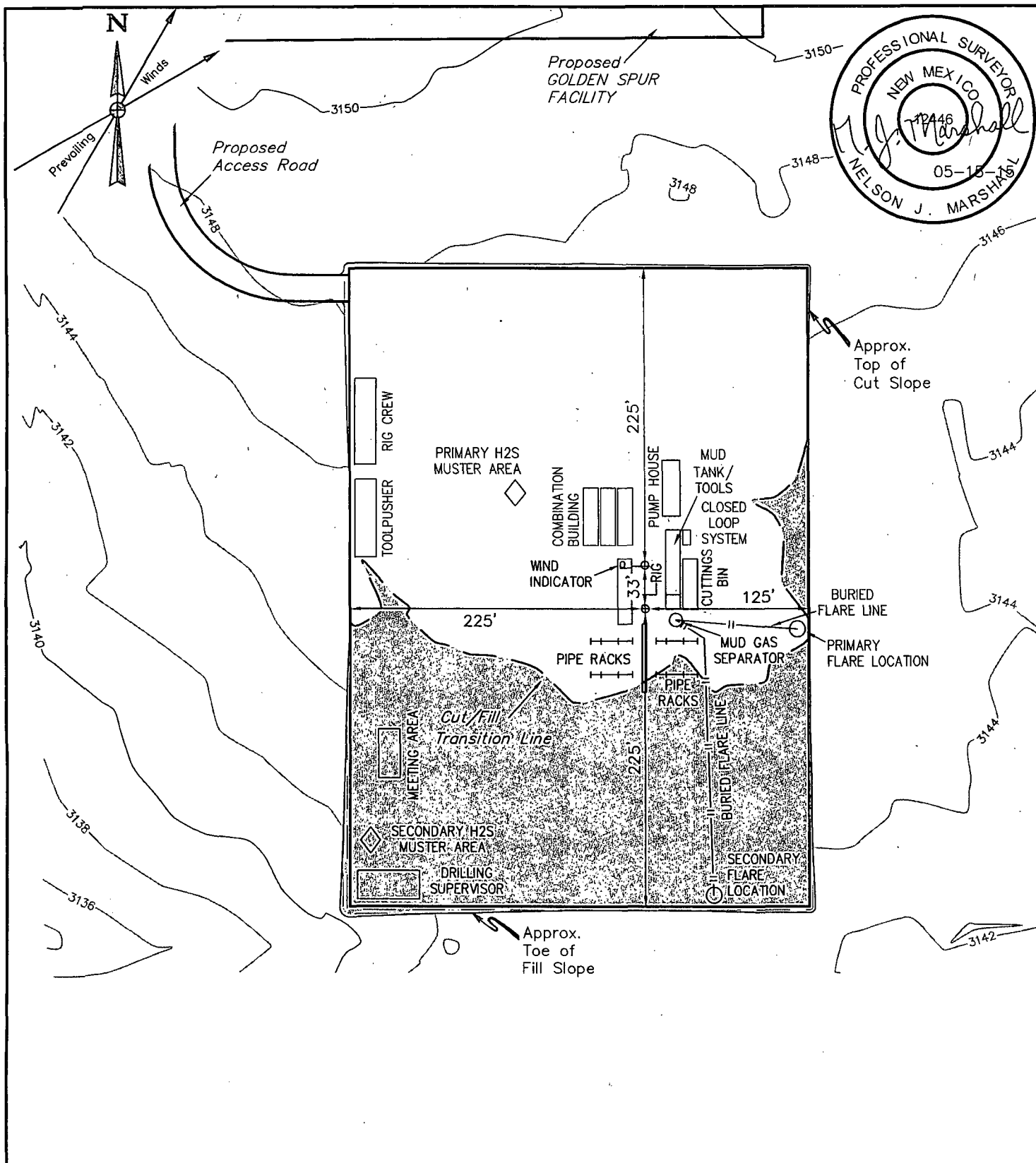
Attachment # 7



"Pinnergy #1" Spudder Rig Layout

H&P FLEX 3 RIG LAYOUT





NOTES:

- Contours shown at 2' intervals.

ConocoPhillips Company

GOLDEN SPUR 36 COM W1 1H & W1 2H
LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DRAWN BY: B.A.	DATE DRAWN: 11-13-14
SCALE: 1" = 100'	REVISED: 05-07-15 H.W.
TYPICAL RIG LAYOUT	FIGURE #3

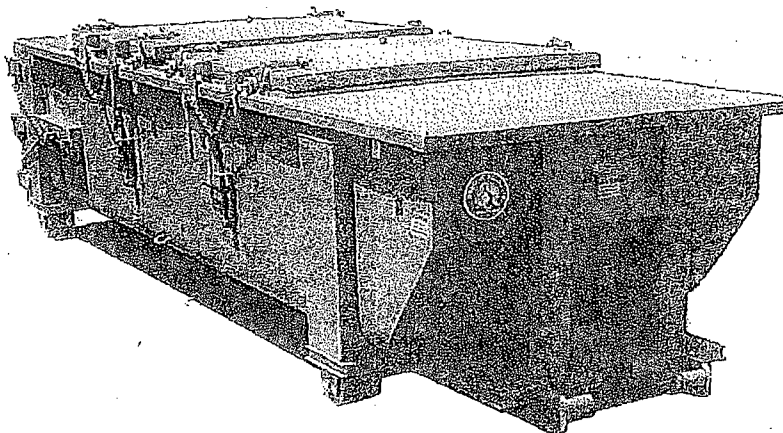


UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

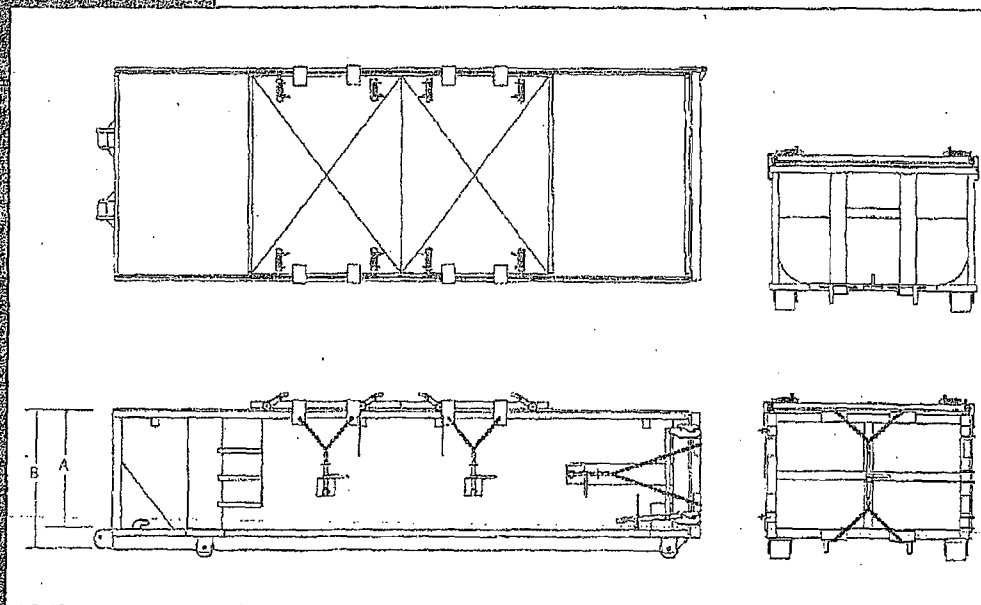
SPECIFICATIONS

FLOOR: 3/16" PL one piece
 CROSS MEMBER: 3 x 4 1/2 channel 16" on center
 WALLS: 3/16" PL solid welded with tubing top, inside liner hooks
 DOOR: 3/16" PL with tubing frame
 FRONT: 3/16" PL slant formed
 PICK UP: Standard cable with 2" x 6" x 1/4" rails, gusset at each crossmember
 WHEELS: 10" DIA x 9" long with rease fittings
 DOOR LATCH: 3 Independent ratchet binders with chains, vertical second latch
 GASKETS: Extruded rubber seal with metal retainers
 WELDS: All welds continuous except sub structure crossmembers
 FINISH: Coated inside and out with direct to metal, rust inhibiting acrylic enamel color coat
 HYDROTESTING: Full capacity static test
 DIMENSIONS: 22'-11" long (21'-8" inside), 99" wide (88" inside), see drawing for height
 OPTIONS: Steel grit blast and special paint, Ampliroll, Heil and Dino pickup
 ROOF: 3/16" PL roof panels with tubing and channel support frame
 LIDS: (2) 68" x 90" metal rolling lids spring loaded, self raising
 ROLLERS: 4" V-groove rollers with delrin bearings and grease fittings
 OPENING: (2) 60" x 82" openings with 8" divider centered on container
 LATCH: (2) independent ratchet binders with chains per lid
 GASKETS: Extruded rubber seal with metal retainers

Heavy Duty Split Metal Rolling Lid



CONT.	A	B
20 YD	41	53
25 YD	53	65
30 YD	65	77



Closed Loop System Design, Operating and Maintenance, and Closure Plan

ConocoPhillips Company
Well: Golden Spur 36 COM W1 1H
Location: Sec. 36, T26S, R31E
Date: 6/23/2015

ConocoPhillips proposes the following plan for design, operating and maintenance, and closure of our proposed closed loop system for the above named well:

1. We propose to use a closed loop system with steel pits, haul-off bins, and frac tanks for containing all cuttings, solids, mud, water, brine, and liquids. We will not dig a pit, nor will we use a drying pad, nor will we build an earth pit above ground level, nor will we dispose of or bury any waste on location.

All drilling waste and all drilling fluids (fresh water, brine, mud, cuttings, drill solids, cement returns, and any other liquid or solid that may be involved) will be contained on location in the rig's steel pits or in haul-off bins or in frac tanks as needed. The intent is as follows:

- We propose to use the rigs' steel pits for containing and maintaining the drilling fluids.
- We propose to remove cuttings and drilled solids from the mud by using solids control equipment and to contain such cuttings and drilled solids on location in haul-off bins.
- We propose that any excess water that may need to be stored on location will be stored in tanks.

The closed loop system components will be inspected daily by each tour and any needed repairs will be made immediately. Any leak in the system will be repaired immediately, and any spilled liquids and/or solids will be cleaned immediately, and the area where any such spill occurred will be remediated immediately.

2. Cuttings and solids will be removed from location in haul-off bins by an authorized contractor and disposed of at an authorized facility. For this well, we propose the following disposal facility:

R-360 Inc.
4507 West Carlsbad Hwy, Hobbs, NM 88240,
P.O. Box 388; Hobbs, New Mexico 88241
Toll Free Phone: 877.505.4274, Local Phone Number: 432.638.4076

The physical address for the plant where the disposal facility is located is Highway 62/180 at mile marker 66 (33 miles East of Hobbs, NM and 32 miles West of Carlsbad, NM).

The Permit Number for R-360 is NM-01-0006.

A photograph showing the type of haul-off bins that will be used is attached.

3. Mud will be transported by vacuum truck and disposed of at R-360 Inc. at the facility described above.
4. Fresh Water and Brine will be hauled off by vacuum truck and disposed of at an authorized salt water disposal well. We propose the following for disposal of fresh water and brine as needed:
 - Nabors Well Services Company, 3221 NW County Rd; Hobbs, NM 88240, PO 5208 Hobbs, NM, 88241, Permit SWD 092. (Well Location: **Section 3, T19S R37E**)
 - Basic Energy Services, P.O. Box 1869; Eunice, NM 88231 Phone Number: 575.394.2545, Facility located at Hwy 18, Mile Marker 19; Eunice, NM.

James Chen
Drilling Engineer
Office: 281-206-5244
Cell: 832-768-1647



H₂S Contingency Plan

April 2015

H₂S Contingency Plan Holders:

Attached is an H₂S Contingency Plan for COPC Permian Drilling working in the West Texas and Southeastern New Mexico areas operated by ConocoPhillips Company.

If you have any questions regarding this plan, please call Tom Samarripa at ConocoPhillips Company, 432.688.9173.

Table of Contents

Section

I. Purpose

II. Scope

III. Procedures

IV. Emergency Equipment and Maintenance

Emergency Equipment Suppliers

General Information

H2S Safety Equipment and Monitoring Systems

V. Emergency Call List

VI. Public/Media Relations

VII. Public Notification/Evacuation

VIII. Forms/Reports



HYDROGEN SULFIDE (H₂S) OPERATIONS

Contingency Plan For Permian Drilling Operations

ConocoPhillips Company
Mid-Continent Business Unit
Permian Asset Area

I. PURPOSE

The purpose of this Contingency Plan is to provide an organized plan of action for alerting and protecting the public following the release of a potentially hazardous volume of hydrogen sulfide. This plan prescribes mandatory safety procedures to be followed in the event of a release of H₂S into the atmosphere from exploration and production operations included in the scope of this plan. The extent of action taken will be determined by the supervisor and will depend on the severity and extent of H₂S release. Release of H₂S must be reported to the Drilling Superintendent and documented on the IADC and in Wellview.

II. SCOPE

This Contingency plan shall cover the West Texas and Southeastern New Mexico areas, which contain H₂S gas and could result in a release where the R.O.E. is greater than 100 ppm at 50' and less than 3000' and does not include a public area and 500 ppm R.O.E. does not include a public road. Radius of exposure is defined as the maximum distance from the source of release that a specified calculated average concentration of H₂S could exist under specific weather conditions.

III. PROCEDURES

First Employee on Scene

_____ Assess the incident and ensure your own safety.

Note the following:

- _____ Location of the incident.
- _____ Nature of the incident.
- _____ Wind direction and weather conditions.
- _____ Other assistance that may be needed.

_____ Call local supervisory personnel (refer to Section V: Emergency Call List) until personal contact is made with a person on the list.

_____ Perform emergency assessment and response as needed. The response may include rescue and/or evacuation of personnel, shutting in a system and/or notification of nearby residents/public (refer to Section VII: Public Notification/Evacuation).

_____ Secure the site.

_____ Follow the direction of the On-scene Incident Commander (first ConocoPhillips supervisor arriving on-scene).

First Supervisor on Scene (ConocoPhillips On-scene Incident Commander)

_____ Becomes ConocoPhillips' On-scene Incident Commander upon arrival to location.

_____ Follow the principles of the **D.E.C.I.D.E.** process below to assess the incident. (Note wind direction and weather conditions and ensure everyone's safety).

DETECT the problem

ESTIMATE likely harm without intervention

CHOOSE response objectives

IDENTIFY action options

DO the best option

EVALUATE the progress

- _____ Complete the Preliminary Emergency Information Sheet
(refer to Section VIII: Forms/Reports).

- _____ Call your supervisor (refer to Section V: Emergency Call List).

- _____ Perform emergency response as necessary. (This may include notification & evacuation of all personnel and/or nearby residents/public (refer to Section VII: Public Notification/Evacuation), requesting assistance from ConocoPhillips personnel or outside agencies (refer to Section V: Emergency Call List) and obtaining any safety equipment that may be required (refer to Section IV: Emergency Equipment and Maintenance).

- _____ Notify appropriate local emergency response agencies of the incident as needed. Also notify the appropriate regulatory agencies. (refer to Section V: Emergency Call List).

- _____ Ensure site security.
 - _____ Set barricades and /or warning signs at or beyond the calculated 100 ppm H₂S radius of exposure (ROE). All manned barricades must be equipped with an H₂S monitor and a 2-way radio.

 - _____ Set roadblocks and staging area as determined.

- _____ Establish the Incident Command Structure by designating appropriate on-scene response personnel as follows:

Recording Secretary	_____
Public Information Officer	_____
Safety/Medical Officer	_____
Decontamination Officer	_____

- _____ Have the "Recording Secretary" begin documenting the incident on the "Incident Log" (refer to Section VIII: Forms/Reports).

- _____ If needed, request radio silence on all channels that use your radio tower stating that, until further notice, the channels should be used for emergency communications only.

- _____ Perform a Site Characterization and designate the following:

Hot Zone	--	Hazardous Area
Warm Zone	--	Preparation & Decontamination Area
Cold Zone	--	Safe Area

AND

On-Scene Incident Command Post	(Cold Zone)
Public Relations Briefing Area	(Cold Zone)
Staging Area	(Cold Zone)
Triage Area	(Cold Zone)
Decontamination Area	(Warm Zone)

_____ Refer all media personnel to ConocoPhillips' On-Scene Public Information Officer (refer to Section VI: Public Media Relations).

_____ Coordinate the attempt to stop the release of H₂S. You should consider closing upstream and downstream valves to shut-off gas supply sources, and/or plugging or clamping leaks. Igniting escaping gas to reduce the toxicity hazard should be used **ONLY AS A LAST RESORT**. (It must first be determined if the gas can be safely ignited, taking into consideration if there is a possibility of a widespread flammable atmosphere.)

_____ Once the emergency is over, return the situation to normal by:

Confirming the absence of H₂S and combustible gas throughout the area,

Discontinuing the radio silence on all channels, stating that the emergency incident is over,

Removing all barricades and warning signs,

Allowing evacuees to return to the area, and

Advising all parties previously notified that the emergency has ended.

_____ Ensure the proper regulatory authorities/agencies are notified of the incident (refer to Section V: Emergency Call List).

_____ Clean up the site. (Be sure all contractor crews have had appropriate HAZWOPER training.)

_____ Report completion of the cleanup to the Asset Environmentalist. (Environmentalist will report this to the proper State and/or Federal agencies.)

_____ Fill out all required incident reports and send originals to the Safety Department. (Keep a copy for your records.)

- Company employee receiving occupational injury or illnesses.
- Company employee involved in a vehicle accident while driving a company vehicle.
- Company property that is damaged or lost.
- Accident involving the public or a contractor; includes personal injuries, vehicle accidents, and property damage. Also includes any situation, which could result in a claim against the Company.
- Hazardous Material Spill/Release Report Form
- Emergency Drill Report

_____ Assist the Safety Department in the investigation of the incident. Review the factors that caused or allowed the incident to occur, and modify operating, maintenance, and/or surveillance procedures as needed. Make appropriate repairs and train or retrain employees in the use and operation of the system.

_____ If this incident was simulated for practice in emergency response, complete the Emergency Drill Report found in Section VIII: Forms/Reports and submit a copy to the Drilling Manager. (Keep one copy in area files to document exercising of the plan.)

Emergency Procedures **Responsibility**

In the event of a release of potentially hazardous amounts of H₂S, all personnel will immediately proceed upwind/ crosswind to the nearest designated briefing area. The COPC Drilling Rep. will immediately, upon assessing the situation, set this into action by taking the proper procedures to contain the gas and notify appropriate people and agencies.

1. In an emergency situation, the Drilling Rep. on duty will have complete responsibility and will take whatever action is deemed necessary in an emergency situation to insure the personnel's safety, to protect the well and to prevent property damage.
2. The Toolpusher will assume all responsibilities of the Drilling Rep. in an emergency situation in the event the Drilling Rep. becomes incapacitated.
3. Advise each contractor, service company, and all others entering the site that H₂S may be encountered and the potential hazards that may exist.
4. Authorize the evacuation of local residents if H₂S threatens their safety.
5. Keep the number of persons on location to a minimum during hazardous operations.
6. Direct corrective actions to control the flow of gas.
7. Has full responsibility for igniting escaping gas to reduce the toxicity hazard.

This should be used **ONLY AS A LAST RESORT.**

IV. EMERGENCY EQUIPMENT and MAINTENANCE

Emergency Equipment Suppliers

DXP/ Safety International – Odessa, Tx.

H ₂ S monitors	432.580.3770
Breathing air includes cascade systems	
First aid and medical supplies	
Safety equipment	
H ₂ S Specialist	

Total Safety US Odessa, Tx/ Hobbs, NM

H ₂ S monitors	432.561.5049 Odessa
Breathing air includes cascade systems	575.392.2973 Hobbs
First aid and medical supplies	
Safety equipment	

DXP/ Indian Fire & Safety – Hobbs, NM

H ₂ S monitors	575.393.3093
Breathing air including cascade systems trailer mounted	
30 minute air packs	
Safety Equipment	

TC Safety – Odessa, Tx.

H ₂ S monitors	432.413.8240
Cascade systems trailer mounted	
30 minute air packs	
Safety Equipment	
H ₂ S Specialist	

Secorp Industries – Odessa, Tx.

H ₂ S Monitor Systems	432.614.2565
Cascade Systems	
H ₂ S Specialist	
H ₂ S, CPR, First Aid Training	

Emergency Equipment and Maintenance (continued)

General Information

Materials used for repair should be suitable for use where H₂S concentrations exceed 100 ppm. In general, carbon steels having low-yield strengths and a hardness below RC-22 are suitable. The engineering staff should be consulted if any doubt exists on material specifications.

Appropriate signs should be maintained in good condition at location entrance and other locations as specified in Texas Rule 36 and NMOCD Rule 118.

All notification lists should be kept current with changes in names, telephone numbers, etc.

All shutdown devices, alarms, monitors, breathing air systems, etc., should be maintained in accordance with applicable regulations.

All personnel working in H₂S areas shall have received training on the hazards, characteristics, and properties of H₂S, and on procedures and safety equipment applicable for use in H₂S areas.

H2S Safety Equipment and Monitoring Systems

An H2S emergency response package will be maintained at locations requiring H2S monitoring. The package will contain at a minimum the following:

3 – Fixed H2S sensors located as follows:

- 1 – on the rig floor
- 1 – at the Bell Nipple
- 1 – at the Shale Shaker or Flowline

1 – Entrance Warning Sign located at the main entrance to the location, with warning signs and colored flags to determine the current status for entry into the location.

2 – Windssocks that are clearly visible.

1 – Audible warning system located on rig floor

2 – Visual warning systems (Beacon Lights)

- 1 – Located at the rig floor
- 1 – Located in the mud mixing room

Note: All alarms (audible and visual) should be set to alarm at 10 ppm.

2 – Briefing areas clearly marked

- 2 - SCBA's at each briefing area
- 1- SCBA located at the Drilling Reps office

Note:

- 1. All SCBA's must be positive pressure type only!!!**
- 2. All SCBA's must either be Scott or Drager brand.**
- 3. All SCBA's face pieces should be size large, unless otherwise specified by the Drilling Supervisor.**

5 – Emergency Escape Paks located at Top Doghouse.

Note: Ensure provisions are included for any personnel working above rig floor in derrick.

1 – Tri or Quad gas monitor located at the Drilling Reps office. This will be used to determine if the work area is safe to re-enter prior to returning to work following any alarm.

V. EMERGENCY CALL LIST:

The following is a priority list of personnel to contact in an emergency situation:

Supervisory Personnel	Office No.	Cellphone
Drilling Supt. (Unconventional) Scott Nicholson	432.688.9065	432.230.8010
Field Superintendents: Clint Case. Manuel Castillo	432.242.7536 432.242.7536	940.231.2839 432.238.7145
Safety Support: Tom Samarripa Dennis Martinez Joey Bell	432.688.9173 432.688.9012 NA	432.556.9113 432.741.1818 903.952.3032
Permian Ops. Supt. (Unconventional) James Buzan	432.688.6860	832.630.4320
MCBU Safety Coordinator Mickey Garner	432.688.9139	432.260.9349
Manger D&C Unconventional Lynn Dooley	281.206.5385	281.435.3517

EMERGENCY CALL LIST: State Officials

Regulatory Agencies

Texas Railroad Commission (District 8)
Midland, Texas

Office: 432.684.5581

New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico 88240-1980

Office: 575.393.6161

Bureau of Land Mnqt.
Carlsbad Field Office
620 E. Greene St.

Office: 575.234.5972
Fax: 575.885.9264

EMERGENCY CALL LIST: Local Officials

Refer to the Location Information Sheet

Note: The LIS should include any area residents (i.e. rancher's house, etc)

VI. Public Media Relations

The **Public Information Officer** becomes the ConocoPhillips on-scene contact (once designated by the Phillips On-Scene Incident Commander).

Confers with Houston Office's Human Relations Representative, who is responsible for assisting in the coordination of local public relations duties.

Answer media questions honestly and **only with facts**, do not speculate about the cause, amount of damage, or the potential impact of the incident of the community, company, employees, or environment. (This information will be formally determined in the incident investigation.)

If you are comfortable answering a question or if you are unsure of the answer, use terms such as the following:

- "I do not know. I will try to find out."
- "I am not qualified to answer that question, but I will try to find someone who can."
- "It is under investigation."

Note:

Do Not Say "No Comment." (This implies a cover-up.)

Do Not Disclose Names of Injured or Dead! Confer with the Houston Office's Human Relations Representative, who is responsible for providing that information.

VII. Public Notification/Evacuation

Alert and/or Evacuate People within the Exposure Area

1. **Public Notification** – If the escape of gas could result in a hazard to area residents, the general public, or employees, the person **first** observing the leak should take **immediate** steps to cause notification of any nearby residents. The avoidance of injury or loss of life should be of prime consideration and given top priority in all cases. If the incident is of such magnitude, or at such location as to create a hazardous situation, local authorities will be requested to assist in the evacuation and roadblocks of the designated area until the situation can be returned to normal.

Note: Bilingual employees may be needed to assist in notification of residents.

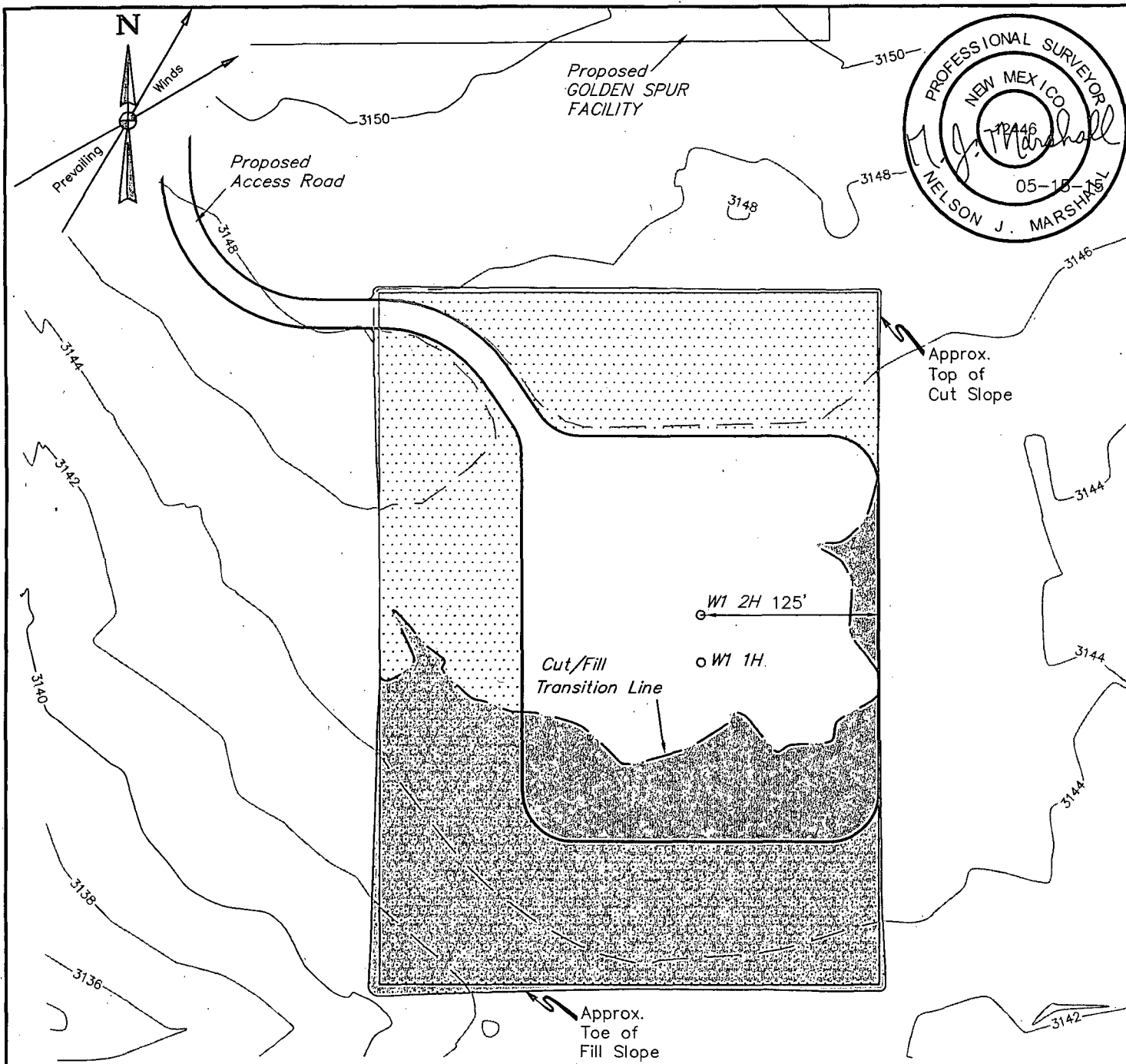
2. **Evacuation Procedures** – Evacuation will proceed upwind from the source of the release of H₂S. Extreme caution should be exercised in order to avoid any depressions or low-lying areas in the terrain. The public area within the radius of exposure should be evacuated in a southwesterly and southeasterly direction so as to avoid the prevailing southern wind direction.

Roadblocks and the staging area should be established as necessary for current wind conditions.

Note: In all situations, consideration should be given to wind direction and weather conditions. H₂S is heavier than air and can settle in low spots. Shifts in wind direction can also change the location of possible hazardous areas.

VIII. FORMS & REPORTS

- I. Incident Log
- II. Preliminary Emergency Information Sheet
- III. Emergency Drill Report
- IV. Onshore Hazardous Material Spill/Release Report Form
- V. Immediate Report of Occupational Injury or Illness
 - Report of Accident-Public Contractor
 - Report of Loss or Damage to Company Property
 - Report of Automotive Incident



LEGEND:
 Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±1.675 ACRES
 APPROXIMATE RECLAIMED AREA ACREAGE = ±2.305 ACRES
 TOTAL ACREAGE = ±3.980 ACRES

NOTES:

- Contours shown at 2' intervals.

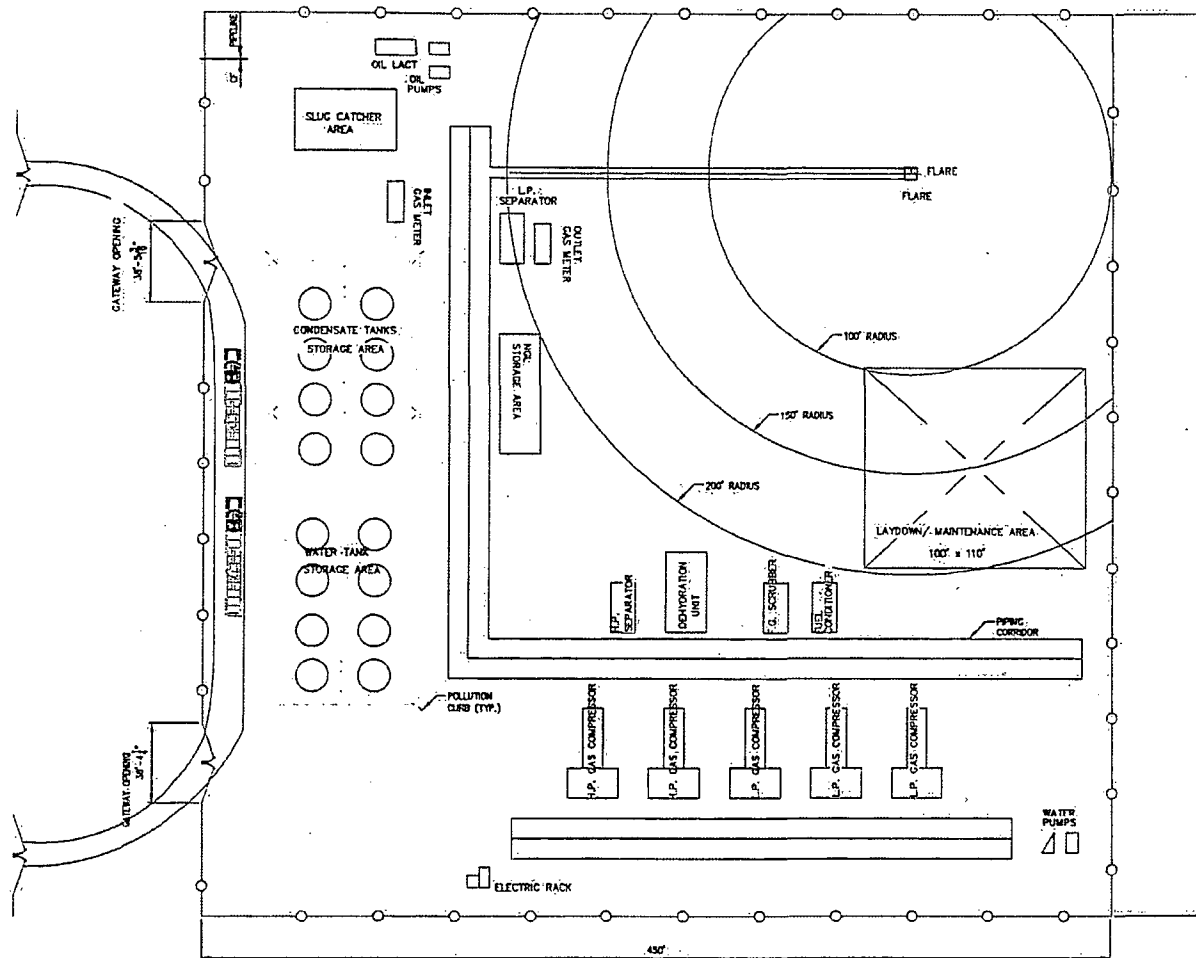
ConocoPhillips Company

**GOLDEN SPUR 36 COM W1 1H & W1 2H
 LOT 1, SECTION 36, T26S, R31E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO**



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

DRAWN BY: R.A.	DATE DRAWN: 11-24-14
SCALE: 1" = 100'	REVISED: 05-07-15 H.W.
RECLAMATION DIAGRAM	FIGURE #4



	-----	BT:	QJZGNTA, COTAS
UNCLAS	-----	BT:	LZYUW
PLDT INAE	JUN 16, 2015	04:31 PM	-----
MCI VMM-80116-00-028-0005	RIV	2804398293	

[illegible]

Surface Use Plan of Operations

Introduction

The following surface use plan of operations will be followed and carried out once the APD is approved. No other disturbance will be created other than what was submitted in this surface use plan. If any other surface disturbance is needed after the APD is approved, a BLM approved sundry notice or right of way application will be acquired prior to any new surface disturbance.

Before any surface disturbance is created, stakes or flagging will be installed to mark boundaries of permitted areas of disturbance, including soils storage areas. As necessary, slope, grade, and other construction control stakes will be placed to ensure construction in accordance with the surface use plan. All boundary markers will be maintained in place until final construction cleanup is completed. If disturbance boundary markers are disturbed or knocked down, they will be replaced before construction proceeds.

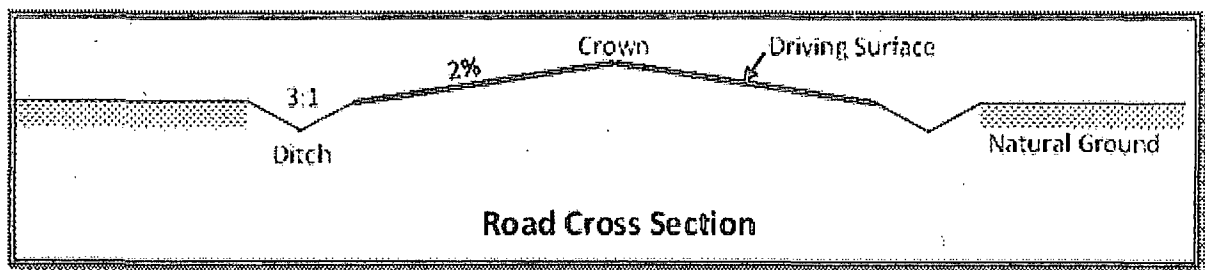
If terms and conditions are attached to the approved APD and amend any of the proposed actions in this surface use plan, we will adhere to the terms and conditions.

1. Existing Roads

- a. No existing oil and gas road will be utilized because These are new wells on the lease and there are currently no existing roads Access Road Map Topo A & Access Road Map Topo B illustrate the proposed road from Highway 128.

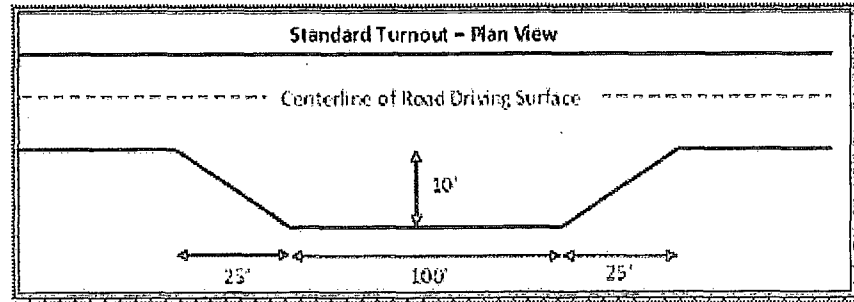
2. New or Reconstructed Access Roads

- a. An access road will be needed for this proposed project. See the survey plat for the location of the access road.
- b. The length of access road needed to be constructed for this proposed project is about 1776 feet.
- c. The maximum driving width of the access road will be 20 feet. The maximum width of surface disturbance when constructing the access road will not exceed 25 feet. All areas outside of the driving surface will be revegetated.
- d. The access road will be constructed with 6 inches of compacted Caliche.
- e. When the road travels on fairly level ground, the road will be crowned and ditched with a 2% slope from the tip of the road crown to the edge of the driving surface. The ditches will be 3 feet wide with 3:1 slopes. See Road Cross Section diagram below.



- f. The access road will be constructed with a ditch on each side of the road.
- g. The maximum grade for the access road will be 2 percent.

h. Turnouts will be constructed for the proposed access road and will be constructed to the dimensions shown in the diagram below. See survey plat or map for location of the turnouts.



- i. No cattleguards will be installed for this proposed access road.
- j. Since the proposed access road crosses lease boundaries, a right-of-way will be required for this access road. A right-of-way grant will be applied for through the BLM. The access road will not be constructed until an approved BLM right-of-way grant is acquired.
- k. No culverts will be constructed for this proposed access road.
- l. No low water crossings will be constructed for the access road.
- m. Since the access road is on level ground, no lead-off ditches will be constructed for the proposed access road.
- n. Newly constructed or reconstructed roads, on surface under the jurisdiction of the Bureau of Land Management, will be constructed as outlined in the BLM "Gold Book" and to meet the standards of the anticipated traffic flow and all anticipated weather requirements as needed. Construction will include ditching, draining, crowning and capping or sloping and dipping the roadbed as necessary to provide a well-constructed and safe road.
- o. The road crosses a lease boundary. Row submittals will be provided under separate cover. Five feet of additional surface disturbance may be needed for construction purposes. The access road has 1741.59' on private surface, D K Farms and 34.38' on Federal BLM land totaling 1776' of road

3. Location of Existing Wells

- a. Golden Spur 36 COM W1 1H, 1 Mile Radius Map of the APD depicts all known wells within a one mile radius of the proposed well.
- b. There is no other information regarding wells within a one mile radius.

4. Location of Existing and/or Proposed Production Facilities

- a. All permanent, lasting more than 6 months, above ground structures including but not limited to pumpjacks, storage tanks, barrels, pipeline risers, meter housing, etc. that are not subject to safety requirements will be painted a non-reflective paint color, Shale Green, from the BLM Standard Environmental Colors chart, unless another color is required in the APD Conditions of Approval.
- b. If any type of production facilities are located on the well pad, they will be strategically placed to allow for maximum interim reclamation, recontouring, and revegetation of the well location.
- c. A production facility is proposed to be installed off the proposed well location. Production from the well will be processed at this production facility. Golden Spur Facility, Location Lay Out, Figure 1 depicts the location of the production facilities.

- d. The proposed production facility will have a secondary containment structure that is constructed to hold the capacity of 1-1/2 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.
- e. Preliminary Plot Plan depicts the production facility as well.
- f. A pipeline to transport production from the proposed well to the production facility will be installed.
 - i. We plan to install a 4 inch buried Coated Steel pipeline from the proposed well to the offsite production facility. The proposed length of the pipeline will be 267 feet. The working pressure of the pipeline will be about 1480 psi. A 40 feet wide work area will be needed to install the buried pipeline. In areas where blading is allowed, topsoil will be stockpiled and separated from the excavated trench mineral material. Final reclamation procedures will match the procedures in Plans for Surface Reclamation. When the excavated soil is backfilled, it will be compacted to prevent subsidence. No berm over the pipeline will be evident.
 - ii. Flow Line ROW depicts the proposed production pipeline route from the well to the existing production facility.
 - iii. The proposed pipeline does not cross lease boundaries, so a right of way grant will not need to be acquired from the BLM.

If any plans change regarding the production facility or other infrastructure (pipeline, electric line, etc.), we will submit a sundry notice or right of way (if applicable) prior to installation or construction.

Additional Pipeline(s)

We propose to install 3 additional pipeline(s):

1. Buried Gas pipeline:

- a. We plan to install a 8 inch buried Coated Steel pipeline from Compressor to Nuevo Gas Pipeline. The proposed length of the pipeline will be 1811 feet. The working pressure of the pipeline will be about 1250 psi. A 40 feet wide work area will be needed to install the buried pipeline. We will need an extra 10 foot wide area near corners to safely install the pipeline. In areas where blading is allowed, topsoil will be stockpiled and separated from the excavated trench mineral material. Final reclamation procedures will match the procedures in Plans for Surface Reclamation. When the excavated soil is backfilled, it will be compacted to prevent subsidence. No berm over the pipeline will be evident.
- b. Red Hills Central Facility West B, Pipeline R-O-W depicts the proposed Gas pipeline route.
- c. The proposed pipeline does not cross lease boundaries, so a right of way grant will not need to be acquired from the BLM.

2. Buried Water pipeline:

- a. We plan to install a 8 inch buried Polyline pipeline from Compressor to COP Water Line. The proposed length of the pipeline will be 1537 feet. The working pressure of the pipeline will be about 200 psi. A 40 feet wide work area will be needed to install the buried pipeline. We will need an extra 10 foot wide area near corners to safely install the pipeline. In areas where blading is allowed, topsoil will be stockpiled and separated from the excavated trench mineral material. Final reclamation procedures will match the procedures in Plans for Surface Reclamation. When the excavated soil is backfilled, it will be compacted to prevent subsidence. No berm over the pipeline will be evident.

- b. Red Hills Central Facility West B, Pipeline R-O-W depicts the proposed Water pipeline route.
 - c. The proposed pipeline does not cross lease boundaries, so a right of way grant will not need to be acquired from the BLM.
3. Buried Gas pipeline:
- a. We plan to install a 16 inch buried Coated Steel pipeline from Compressor to Nuevo Gas Line. The proposed length of the pipeline will be 1537 feet. The working pressure of the pipeline will be about 200 psi. A 40 feet wide work area will be needed to install the buried pipeline. We will need an extra 10 foot wide area near corners to safely install the pipeline. In areas where blading is allowed, topsoil will be stockpiled and separated from the excavated trench mineral material. Final reclamation procedures will match the procedures in Plans for Surface Reclamation. When the excavated soil is backfilled, it will be compacted to prevent subsidence. No berm over the pipeline will be evident.
 - b. Red Hills Central Facility West B, Pipeline R-O-W depicts the proposed Gas pipeline route.
 - c. The proposed pipeline does not cross lease boundaries, so a right of way grant will not need to be acquired from the BLM.

Electric Line(s)

- a. We plan to install an overhead electric line for the proposed well. The proposed length of the electric line will be 2317 feet. Power Line R-O-W depicts the location of the proposed electric line route. The electric line will be construction to provide protection from raptor electrocution.
- b. Since the proposed electric line crosses lease boundaries, a right of way grant will be acquired prior to installation of the proposed electric line.

5. Location and Types of Water

- a. The source and location of the water supply are as follows: The water will be trucked from Texas.
- b. The operator will use established or constructed oil and gas roads to transport water to the well site. The operator will try to utilize the identified access route in the surface use plan.

6. Construction Material

- a. Clean caliche will be from a BLM source or a third party provider.

7. Methods for Handling Waste

- a. Drilling fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility.
- b. Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility. All trash on and around the well site will be collected for disposal.
- c. Human waste and grey water will be properly contained and disposed of properly at a state approved disposal facility.
- d. After drilling and completion operations, trash, chemicals, salts, frac sand and other waste material will be removed and disposed of properly at a state approved disposal facility.
- e. The well will be drilled utilizing a closed loop system. Drill cutting will be properly disposed of into steel tanks and taken to an NMOCD approved disposal facility.

8. Ancillary Facilities

- a. No ancillary facilities will be needed for this proposed project.

9. Well Site Layout

- a. The following information is presented in the well site survey plat or diagram:
 - i. reasonable scale (near 1":50')
 - ii. well pad dimensions
 - iii. well pad orientation
 - iv. drilling rig components
 - v. proposed access road
 - vi. elevations of all points
 - vii. topsoil stockpile
 - viii. reserve pit location/dimensions if applicable
 - ix. other disturbances needed (flare pit, stinger, frac farm pad, etc.)
 - x. existing structures within the 600' x 600' archaeological surveyed area (pipelines, electric lines, well pads, etc)
- b. The proposed drilling pad was staked and surveyed by a professional surveyor. The attached survey plat of the well site depicts the drilling pad layout as staked.
- c. The submitted survey plat does depict all the necessary information required by Onshore Order No. 1.
- d. Topsoil Salvaging
 - i. Grass, forbs, and small woody vegetation, such as mesquite will be excavated as the topsoil is removed. Large woody vegetation will be stripped and stored separately and respread evenly on the site following topsoil resspreading. Topsoil depth is defined as the top layer of soil that contains 80% of the roots. In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location and along the perimeter of the access road to control run-on and run-off, to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.

10. Plans for Surface Reclamation

Reclamation Objectives

- i. The objective of interim reclamation is to restore vegetative cover and a portion of the landform sufficient to maintain healthy, biologically active topsoil; control erosion; and minimize habitat and forage loss, visual impact, and weed infestation, during the life of the well or facilities.
- ii. The long-term objective of final reclamation is to return the land to a condition similar to what existed prior to disturbance. This includes restoration of the landform and natural vegetative community, hydrologic systems, visual resources, and wildlife habitats. To ensure that the long-term objective will be reached through human and natural processes, actions will be taken to ensure standards are met for site stability, visual quality, hydrological functioning, and vegetative productivity.
- iii. The BLM will be notified at least 3 days prior to commencement of any reclamation procedures.

- iv. If circumstances allow, interim reclamation and/or final reclamation actions will be completed no later than 6 months from when the final well on the location has been completed or plugged. We will gain written permission from the BLM if more time is needed.
- v. Interim reclamation will be performed on the well site after the well is drilled and completed. Reclamation Diagram, Figure 4 depicts the location and dimensions of the planned interim reclamation for the well site.

Interim Reclamation Procedures (If performed)

1. Within 30 days of well completion, the well location and surrounding areas will be cleared of, and maintained free of, all materials, trash, and equipment not required for production.
2. In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.
3. The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.
4. Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
5. Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area.
6. The interim reclamation will be monitored periodically to ensure that vegetation has reestablished and that erosion is controlled.

Final Reclamation (well pad, buried pipelines, etc.)

1. Prior to final reclamation procedures, the well pad, road, and surrounding area will be cleared of material, trash, and equipment.
2. All surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.
3. All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.
4. After all the disturbed areas have been properly prepared, the areas will be seeded with the proper BLM seed mixture, free of noxious weeds. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
5. Proper erosion control methods will be used on the entire area to control erosion, runoff and siltation

of the surrounding area.

6. All unused equipment and structures including pipelines, electric line poles, tanks, etc. that serviced the well will be removed.

7. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion is controlled.

11. Surface Ownership

a. The surface ownership of the proposed project is Private.

1. **Surface Owner:** David Kirk

Phone Number: (432) 853-2242

Address: 2713 Racquet Club Drive Midland, TX 79705

a. ConocoPhillips Company is currently working on obtaining the surface use agreement from the private surface owner regarding the proposed project. Once completed ConocoPhillips will submit a letter stating the agreement has been acquired.

12. Other Information

a. The following well pad and facility location was staked with Ms. Bad Bear on October 29, 2014. Please review this application with the Golden Spur 36 COM W1 2H. This well is planned to spud January 2016.

Power line ROW's will be filed under separate cover. The Power Line has 1789.64' on private surface, D K Farms and 13.12' on Federal BLM land totaling 1803' of overhead electric lines.

The Surface Use and Compensation Agreement will be filed under separate cover.

The facility pad was originally staked for 600' x 600' but ConocoPhillips will only be building 450' x 100' at this time.

The Compressor site will have three buried lines. The 8" gas line will travel 1811'; 1612.47' is on private land, D K Farms and 198.84' on Federal BLM Land and will tie into the existing Nuevo line. The 16" gas line and an 8" water line are all on private land totaling 1,537'. The 16" gas line will tie into the proposed Red Hills Trunk line and the 8" water line will tie into the COP water line. The lines will follow the staked perimeter of the facility until it reaches the road where it will follow the road until the tie in point. The road and the portion of the staked facility will be used as temporary work space. A 40' R-O-W is proposed for 1612' of the line that connects to the Red Hills Trunk line and a 30' R-O-W is proposed for the 198.84' line that connects to Nuevo. The flow line ROW will be filed under separate cover.

ConocoPhillips respectfully request to defer the interim reclamation on the north side of the pad in order to use this area to access the future compressor site.

13. Maps and Diagrams

Golden Spur 36 COM W1 1H, 1 Mile Radius Map - Wells Within One Mile

Golden Spur Facility, Location Lay Out, Figure 1 - Production Facilities Diagram

Preliminary Plot Plan - Additional Production Facilities Diagram

Flow Line ROW - Production Pipeline

Red Hills Central Facility West B, Pipeline R-O-W - Gas Pipeline

Red Hills Central Facility West B, Pipeline R-O-W - Water Pipeline

Red Hills Central Facility West B, Pipeline R-O-W - Gas Pipeline

Power Line R-O-W - Electric Line

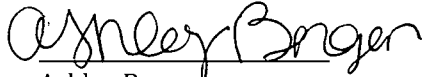
Reclamation Diagram, Figure 4 - Interim Reclamation

Operator Certification

CONOCOPHILLIPS COMPANY

CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed 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 the 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 with bond coverage provided by Nationwide Bond ES0085. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

 Date:
Ashley Bergen
Regulatory Specialist

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	ConocoPhillips Co
LEASE NO.:	LC068281B
WELL NAME & NO.:	1H-Golden Spur 36 Com W1
SURFACE HOLE FOOTAGE:	282'/S & 570'/E
BOTTOM HOLE FOOTAGE:	50'/N & 710'/E
LOCATION:	Section 36, T. 26 S., R. 31 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☒ **Special Requirements**
 - Communitization Agreement
- ☒ **Construction**
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- ☐ **Road Section Diagram**
- ☒ **Drilling**
 - H2S Requirements-Onshore Order #6**
 - Medium Cave/Karst
 - Cement Requirements
 - Waste Material and Fluids
- ☒ **Production (Post Drilling)**
 - Well Structures & Facilities
 - Pipelines
 - Electric Lines
- ☐ **Interim Reclamation**
- ☐ **Final Abandonment & Reclamation**

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Communitization Agreement

A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales. In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Avian Powerline Stipulations

Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all power line structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. The holder without liability or expense shall make such modifications and/or additions to the United States.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS**Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

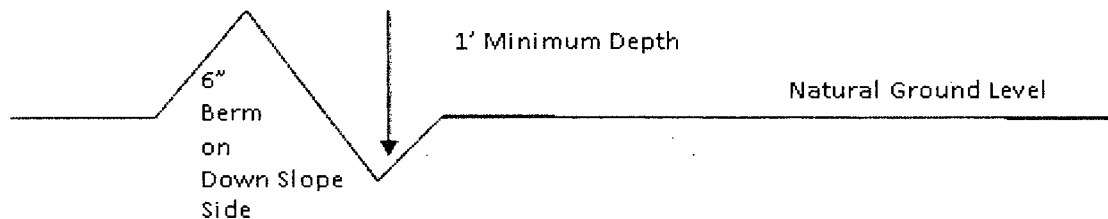
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill out sloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattleguards

An appropriately sized cattleguard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattleguards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

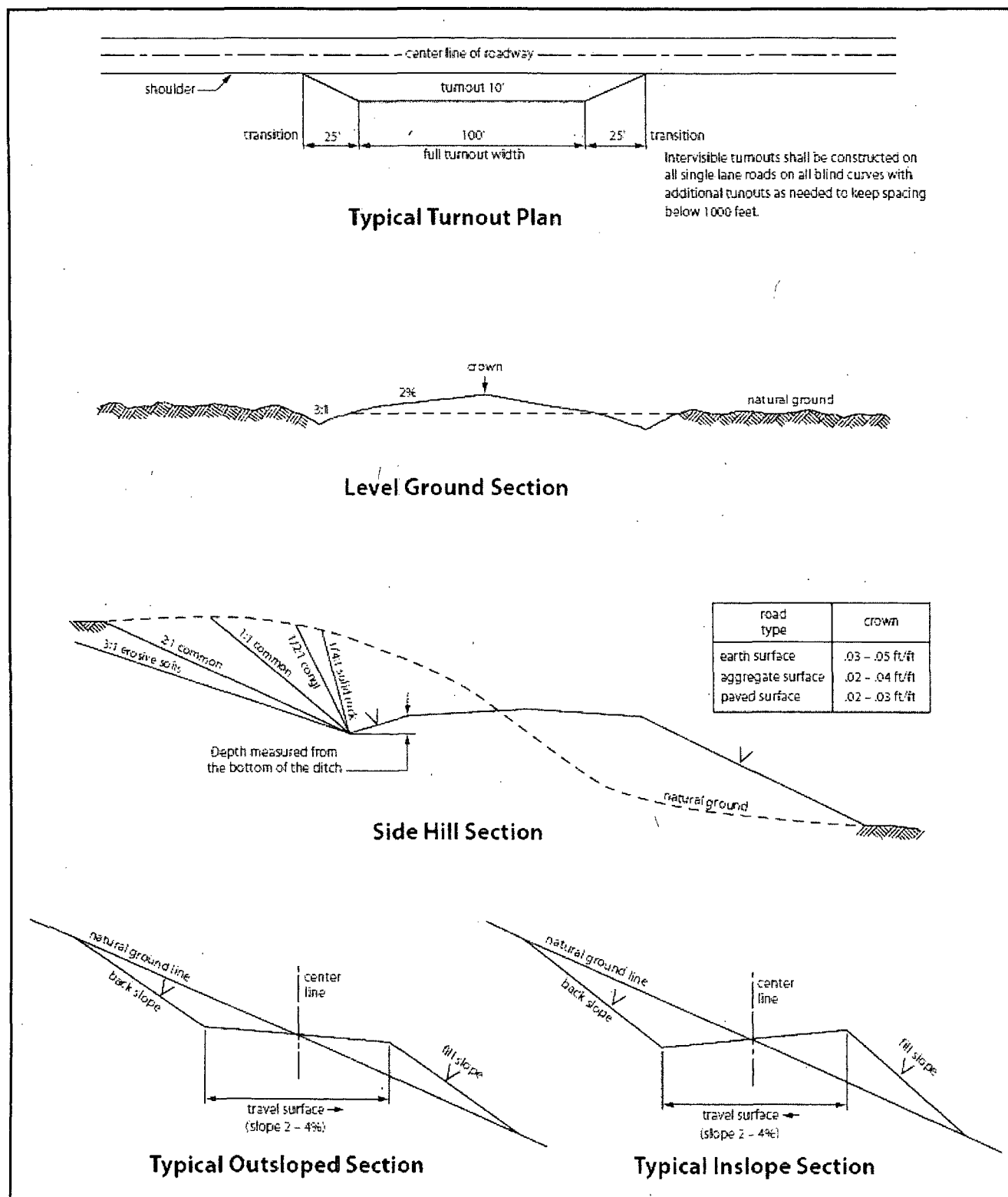


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ **Lea County**

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 393-3612

1. A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. **As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.**
2. Setting surface casing with Pinnergy Rig
 - a. Notify the BLM when removing the Pinnergy Rig.
 - b. Notify the BLM when moving in the H&P Flex Rig. Rig to be moved in within 90 days of notification that Pinnergy Rig has left the location. Failure to notify or have rig on location within 90 days will result in an Incident of Non-Compliance.
 - c. Once the H&P Flex Rig is on location, it will drill the Golden Spur 36 Com W1 1H and W1 2H in conjunction using batch drilling.
 - d. BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as H&P Flex Rig is rigged up on well. CIT for the surface casing shall be performed and results recorded on subsequent sundry.
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
4. **The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper**

copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Medium Cave/Karst.

Abnormal pressures may occur in the Wolfcamp.

Possible water flows in the Salt and the Castile.

Possible lost circulation in the Delaware.

1. The **13-3/8 inch** surface casing shall be set at approximately **1040 feet** (**in a competent bed below the Magenta Dolomite, a Member of the Rustler**) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. **Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours**

after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Formation below the 13-3/8" shoe to be tested according to Onshore Order

2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

Contingency Casing: The plan is to drill the well without the 9-5/8 inch intermediate casing, but if hole conditions decline then the 9-5/8 casing will be run.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

3. The minimum required fill of cement behind the 7-5/8 inch 2nd intermediate casing is:

Option #1: Single stage

☒ Cement to surface. Operator shall provide method of verification.

Additional cement will be required as the excess calculates to -35%.

Option #2: Multi-stage

Operator has proposed DV tool at depth of 4500'. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.

- a. First stage to DV tool:

☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve approved top of cement on the next stage.

- b. Second stage above DV tool:

☒ Cement to surface. Operator shall provide method of verification.

Additional cement will be required as the excess calculates to -35%.

Formation below the 7-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

If cement does not circulate to surface on the the first two casings, the cement on the third casing must come to surface.

4. The minimum required fill of cement behind the 5 inch production casing is:

- ☒ Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification. **Additional cement may be required as the excess calculates to 3%.**

5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

Option 1 - BOP testing if wells are drilled conventionally- BOP is not removed between casing strings.

3. **Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of**

the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 psi.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
- e. Operator shall perform the 9-5/8" casing integrity tests to 70% of the casing burst. This will test the multi-bowl seals.
- f. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

Option 2 - BOP testing for Batch Drilling-BOP is removed between casing strings

4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.** BOP/BOPE shall be tested after nipple up according to Onshore Order #2.
5. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **7-5/8 inch shoe shall be 10,000 (10M) psi. 10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**
6. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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IX. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering; and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the

largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other

pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.
6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
7. The maximum allowable disturbance for construction in this right-of-way will be 40 feet:
 - Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 40 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
 - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)
8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

- | | |
|--|--|
| <input type="checkbox"/> seed mixture 1 | <input type="checkbox"/> seed mixture 3 |
| <input checked="" type="checkbox"/> seed mixture 2 | <input type="checkbox"/> seed mixture 4 |
| <input type="checkbox"/> seed mixture 2/LPC | <input type="checkbox"/> Aplomado Falcon Mixture |

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or

other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the Grant and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 *et seq.* (1982) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (*see* 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.
4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:
 - a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;

b. Activities of other parties including, but not limited to:

- (1) Land clearing
- (2) Earth-disturbing and earth-moving work
- (3) Blasting
- (4) Vandalism and sabotage;

c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.

6. All construction and maintenance activity shall be confined to the authorized right-of-way width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.

8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky or dune areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of 24 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No

permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

17. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the

Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

X. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce

the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

X. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area , shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sand love grass (<i>Eragrostis trichodes</i>)	1.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	2.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed