DMB No. 1004-0137 Explies October 31, 2014 5. Lenso Serial No. SHL: 1009200000 BHL: NMLC068281E 6. If Indian, Allotes or Tribe Name N/A 7. If Unit or CA Agreement, Name and No. 8. Lense Name and Well No. Golden Spur 36 COM W1 2H 9. API Well No. 30-015- 10. Field and Pool, or Exploratory 11. Seo., T. R. M. or Blk. and Survey or Area Lot 1, 36-26S-31B 12. County or Parish Eddy NM paoing Unit dedicated to this well 5.32 DEM/BIA Bond No. on file 10085
N/A 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. Golden Spur 36 COM W1 2H 9. API Well No. 30-015- 10. Field and Pool, or Exploratory 11. Seo., T. R. M. or Bik.and Survey or Area Lot 1, 36-26S-31B 12. County or Parish Eddy 13. State NM paoing Unit dedicated to this well 5.32
8. Lease Name and Well No. Golden Spur 36 COM W1 211 9. API Well No. 30-015- 10. Field and Pool, or Exploratory 11. Sec., T. R. M. or Blk.and Survey or Area Lot 1, 36-26S-31B 12. County or Parish Eddy 13. State NIM paoing Unit dedicated to this well 5.32
9. API Well No. 30-015- 10. Fleld and Pool, or Exploratory 11. Seo., T. R. M. or Blk. and Survey or Area Lot 1, 36-268-31B 12. County or Parish Bddy NM pacing Unit dedicated to this well 5.32
30-015- 10. Field and Pool, or Exploratory 11. Seo., T. R. M. or Bik.and Survey or Area Lot 1, 36-268-31B 12. County or Parish 13. State Eddy NM paoing Unit dedicated to this well 5.32
11. Seo., T. R. M. or Blk.and Survey or Area Lot 1, 36-268-31B 12. County or Parish Eddy 13. State NM paoing Unit dedicated to this well 5.32
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Eddy NM paoing Unit dedicated to this well 5.32 NAMBIA Bond No. on file
Eddy NM paoing Unit dedicated to this well 5.32 NAMBIA Bond No. on file
5,32 BLM/BIA Bond No. on file
ELM/BIA Bond No. on file
23. Estimated duration 30 days
to this form:
orations unless covered by an existing bond on file (see
o information and/or plans as may be required by the
Date 6/29/15
Date 9/2/15
D EIELD VEETCE
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to make to any department or agency of the United
*(Instructions on page 2)
lecewed Via FMail 9/16/2013
1. 1

Carlsbad Controlled Water Basin

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Accepted for record

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

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

Dedicated Acres

225.32

26S

Joint or Infil

31E

14 Consoll

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

EAST

1040

■ AMENDED REPORT

EDDY

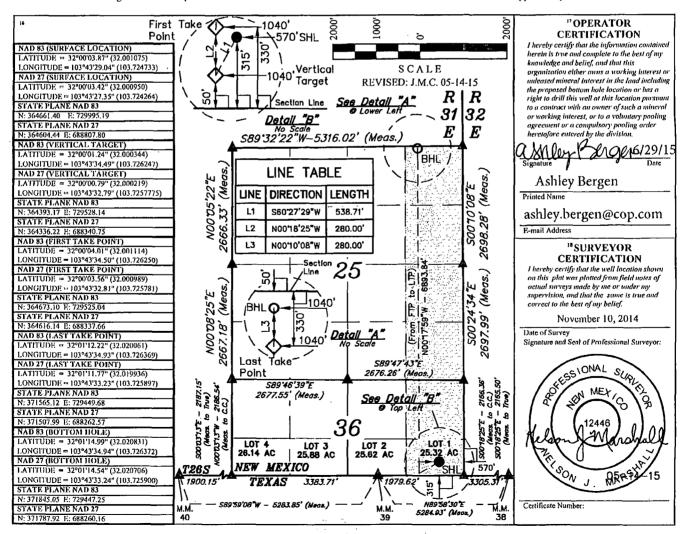
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-015-	API Number	3375	98	01000	<u></u> ω	C-015 G	-08 <u>5</u> 268	3725P:W	
315259 GOLDEN SPUR 36 COM W1									
OGRID No. 217817 ConocoPhillips Company 3145.9									
					Surface	Location			
UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County LOT 1 36 26S 31E 315' SOUTH 570 EAST EDDY									
_	···		11	Bottom E	Iole Location I	f Different From	n Surface		
PIT and last are	Cartina	71	D	Tatlda	The of Concess Alice	North/Couth line	Vest from the	Fact/West line	Country

NORTH

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.

50



1. Geologic Formations

TVD of target	11,605	Pilot hole depth	N/A
MD at TD:	18,834	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.

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

Hole Size		Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Dry Tension
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 11,879	7.625"	29.7	P110	BTC	**1.7 COP Collapse Design S.F.	1.46	2.72
6.75°	0	18,834 (11605 TVD)	5.0"	18	P110	TXPBTC	1.59	1.65	2.78
				BLM N	Ainimum S	afety 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		Interval	Csg.		Grade	Conn.	SF	SF	SF
Size	From	To	Size	(lbs)			Collapse	Burst	Tension
12.25"	0	4,165	9.625"	40.0	L80	BTC	2.53	1.36	5.50
8.75"	0	11,879	7.625"	29.7	P110	TenW523	**1.7	1.46	2.72
							COP Collapse Design S.F.		

	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

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. Cem		·		Total Sanda Comment		
Casing	#Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ 0 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% CaCl2 + 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.
Conting	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
ency Inter: 1	350					
	CP Tool: NO					
	9-5/	8" Casing	will be s	et 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)
	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.
Prod.	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/EC	CP 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.

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.								
	A variance is requested for the use of a flexible choke line from the BOP to Choke								
Y	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.								
	Provide description here								
	See attached schematic.								

5. Mud Program

	pth	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	11,879	Brine or OBM	8.9-10.5	28-40	≤5
11,879	18,834	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	PVT/Pason/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

Logg	ing, 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.

Add	ditional logs planned Interval	
	Resistivity	
	Density	
	CBL	
X	Mud log	
	PEX	

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 H2S is present

X H2S 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 preset 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 nippled 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 nippled 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.

Attachments:

Attachment#1: Directional Plan.

Attachment#2: Casing & Cement Wellbore Schematic.

Attachment#3:

Wellhead Schematics Choke & BOPE Schematics. Attachment #4: 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 2H - PS

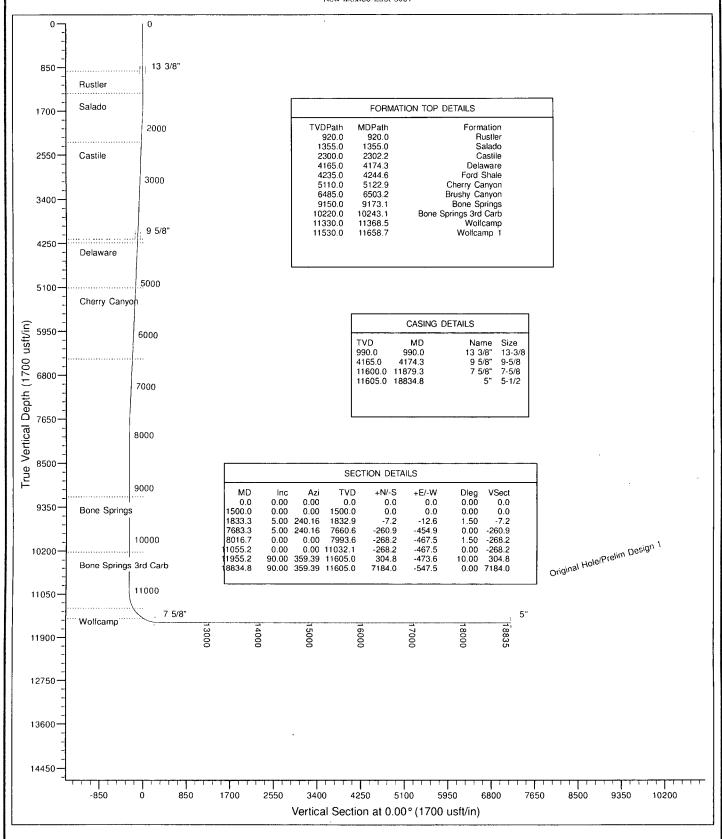
Golden Spur 36 COM W1 2H Original Hole Plan: Prelim Design 1 (Golden Spur 36 COM W1 2H/Original Hole) WELL @ 3171.Dusft (Original Well Elev)
US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)

Clarke 1866 New Mexico East 3001



Azimoths to Grid North True North: -0,521 Magnetic North: 7.011

Mageete Field Strangth: 48019-Asof Olio Angle, 59-85° Date: 570-2015 Model: PGGM2014



ConocoPhillips MCBU

Permian Delaware Hz New Mexico GOLDEN SPUR 36 COM W1 2H - PS Golden Spur 36 COM W1 2H

Original Hole

Plan: Prelim Design 1

Standard Planning Report

14 May, 2015

Planning Report

Database: Company Project

Site:

EDM Central Planning ConocoPhillips MCBU

Permian Delaware Hz New Mexico GOLDEN SPUR 36 COM W1 2H - PS

Well: Golden Spur 36 COM W1 2H

Original Hole Wellbore: Prelim Design 1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method Site GOLDEN SPUR 36 COM W1 2H - PS WELL @ 3171.0usft (Original Well Elev) WELL @ 3171.0usft (Original Well Elev)

Minimum Curvature

Project

Permian Delaware Hz New Mexico, Mexico

Map System:

US State Plane 1927 (Exact solution)

Geo Datum: Map Zone:

NAD 1927 (NADCON CONUS)

New Mexico East 3001

System Datum:

Mean Sea Level

Site

GOLDEN SPUR 36 COM W1 2H - PS, Section 36 and 25

Site Position:

Northing:

364,604.44 usft

32° 0' 3.417 N

From:

Map

Easting:

688,807.80 usft

Longitude:

Position Uncertainty:

Slot Radius:

13-3/16

Grid Convergence:

103° 43' 27.351 W

0.32 °

Golden Spur 36 COM W1 2H, Exploration - Horizontal

Well Position

+N/-S

0.0 usft

0.0 usft

Northing:

364,604.44 usft

Latitude:

+E/-W

0.0 usft

Easting:

5/13/2015

688,807.80 usft

Longitude:

32° 0′ 3.417 N 103° 43' 27.351 W

48 019

Position Uncertainty

BGGM2014

0.0 usft Wellhead Elevation:

Ground Level:

3,146.0 usft

Wellbore Original Hole

Magnetics Model Name Dip Angle Field Strength Declination

Design

Prelim Design 1

Audit Notes:

Version:

Phase:

PROTOTYPE

Tie On Depth:

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Vertical Section: Depth From (TVD) +E/-W Direction +N/-S (usft) (usft) (usft) (°) 0.0 0.0 0.0 0.00

Plan Sections		LINEAU PROPERTY OF THE PROPERT			anan Cara sembahan da ar	NAMES OF TAXABLE PARTY.			and the second Control of the Contro	
Measured			Vertical		111	Dogleg	Build	Turn	7	
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1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1.833.3	5.00	240.16	1,832.9	-7.2	-12.6	1.50	1.50	0.00	240.16	GS_36_W1_2H_VT
7,683.3	5.00	240.16	7,660.6	-260.9	-454.9	0.00	0.00	0.00	0.00	
8,016.7	0.00	0.00	7,993.6	-268.2	-467.5	1.50	-1.50	0.00	180.00	
11,055.2	0.00	0.00	11,032.1	-268.2	-467.5	0.00	0.00	0.00	0.00	
11,955.2	90.00	359.39	11,605.0	304.8	-473.6	10,00	10.00	-0.07	359.39	
18,834,8	90.00	359.39	11,605.0	7,184.0	-547.5	0.00	0.00	0.00	0.00	GS 36 W1 2H BHL

Planning Report

Database: Company: Project:

Planned Survey

Site:

EDM Central Planning ConocoPhillips MCBU

Permian Delaware Hz New Mexico GOLDEN SPUR 36 COM W1 2H - PS Golden Spur 36 COM W1 2H

Vertical

Well: Golden Spur 36
Wellbore: Original Hole
Design: Prelim Design 1

Measured

Castile

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Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Site GOLDEN SPUR 36 COM W1 2H - PS WELL @ 3171.0usft (Original Well Elev) WELL @ 3171.0usft (Original Well Elev) Grid

Minimum Curvature

Dogleg

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-63.0

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-93.2

-100.8

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-115.9

-123.5

-131.0

-138.6

-146.2

-153.7

-161.3

-168.9

-176.4

-184.0

-189.6

	Depth (usft)	Inclination (°)	Azimuth	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate	Rate (°/100usft)
i	(usit)	()	(°)	(usit)	(usit)	(usit)	(usit)	(7100051)	(/ toodsity	(1100dSit)
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ì	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
1	300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
1	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
- 1	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
1	800.0	0.00	0.00	0.008	0.0	0.0	0.0	0.00	0.00	0.00
Ì	900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
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:	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	. 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
- 1	Salado								*	,
	1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1	1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
ı	1,600.0	1.50	240.16	1,600.0	-0.7	-1.1	-0.7	1.50	1.50	0.00
-	1,700.0	3.00	240.16	1,699.9	-2.6	-4.5	-2.6	1.50	1.50	0.00
	1,800.0	4.50	240.16	1,799.7	-5.9	-10.2	-5.9	1.50	1.50	0.00
l	1,833.3	5.00	240.16	1,832.9	-7.2	-12.6	-7.2	1.50	1.50	0.00
	1,900.0	5.00	240.16	1,899.3	-10.1	-17.6	-10.1	0.00	0.00	0.00
	2,000.0	5.00	240.16	1,998.9	-14.5	-25.2	-14.5	0.00	0.00	0.00
İ	2,100.0	5.00	240.16	2,098.6	-18.8	-32.8	-18.8	0.00	0.00	0.00
	2,200.0	5.00	240.16	2,198.2	-23.1	-40.3	-23.1	0.00	0.00	0.00
	2,300.0	5.00	240.16	2,297.8	-27.5	-47.9	-27.5	0.00	0.00	0.00
i	2,302.2	5.00	240.16	2,300.0	-27.6	-48.1	-27.6	0.00	0.00	0.00

-31.8

-36.1

-40.5

-44.8

-49.2

-53.5

-57.8

-62.2

-66.5

-70.8

-75.2

-79.5

-83.8

-88.2

-92.5

-96.9

-101.2

-105.5

-108.8

Planning Report

Database: Company: Project: Site:

EDM Central Planning ConocoPhillips MCBU

Permian Delaware Hz New Mexico GOLDEN SPUR 36 COM W1 2H - PS

Well: Golden Spur 36 COM W1 2H

Wellbore: Original Hole
Design: Prelim Design 1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Site GOLDEN SPUR 36 COM W1 2H - PS WELL @ 3171.0usft (Original Well Elev) WELL @ 3171.0usft (Original Well Elev)

Grid

				e de la composição de la La composição de la compo				en e	
Planned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth Inc (usft)	lination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
4,200.0			4 100 6		200	400.0	0.00	0.00	0.00
4,200.0	5.00 5.00	240.16 240.16	4,190.6 4,235.0	-109.9 -111.8	-191.5 -194.9	-109.9 -111.8	0.00 0.00	0.00 0.00	0.00
Ford Shale	0.00	210.10	1,200.0	111.5	104.0		0.00	0.00	0.00
4,300.0	5.00	240.16	4,290.2	-114.2	-199.1	-114.2	0.00	0.00	0.00
4,400.0	5.00	240.16	4,389.8	-118.5	-206.7	-118.5	0.00	0.00	0.00
4,500.0 4,600.0	5.00 5.00	240.16 240.16	4,489.4 4.589.0	-122.9 -127.2	-214.2 -221.8	-122.9 -127.2	0.00 0.00	0.00 0.00	0.00 0.00
4,700.0	5.00	240.16	4,569.0	-127.2	-221.6	-131.5	0.00	0.00	0.00
-									
4,800.0	5.00	240.16	4,788.3	-135.9	-236.9	-135.9	0.00	0.00	0.00
4,900.0	5.00	240.16	4,887.9	-140.2	-244.5	-140.2	0.00	0.00	0.00
5,000.0 5,100.0	5.00 5.00	240.16 240.16	4,987.5	-144.6	-252.0	-144.6	0.00	0.00	0.00
5,100.0 5,122.9	5.00	240.16	5,087.1 5,110.0	-148.9 -149.9	-259.6 -261.3	-148.9 -149.9	0.00 0.00	0.00 0.00	0.00 0.00
	5.00	240.10	5,110.0	-149.9	-201.3	-149.9	0.00	0.00	0.00
Cherry Canyon	•			* * .	12				
5,200.0	5.00	240.16	5,186.8	-153.2	-267.1	-153.2	0.00	0.00	0.00
5,300.0	5.00	240.16	5,286.4	-157.6	-274.7	-157.6	0.00	0.00	0.00
5,400.0	5.00	240.16	5,386.0	-161.9	-282.3	-161.9	0.00	0.00	0.00
5,500.0	5.00	240.16	5,485.6	-166.2	-289.8	-166.2	0.00	0.00	0.00
5,600.0	5.00	240.16	5,585.2	-170.6	-297.4	-170.6	0.00	0.00	0.00
5,700.0	5.00	240.16	5,684.9	-174.9	-304.9	-174.9	0.00	0.00	0.00
5,800.0	5.00	240.16	5,784.5	-179.3	-312.5	-179.3	0.00	0.00	0.00
5,900.0	5.00	240.16	5,884.1	-183.6	-320.1	-183.6	0.00	0.00	0.00
6,000.0	5.00	240.16	5,983.7	-187.9	-327.6	-187.9	0.00	0.00	0.00
6,100.0	5.00	240.16	6,083.3	-192.3	-335.2	-192.3	0.00	0.00	0.00
6,200.0	5.00	240.16	6,183.0	-196.6	-342.7	-196.6	0.00	0.00	0.00
6,300.0	5.00	240.16	6,282.6	-200.9	-350.3	-200.9	0.00	0.00	0.00
6,400.0	5.00	240.16	6,382.2	-205.3	-357.9	-205.3	0.00	0.00	0.00
6,500.0	5.00	240.16	6,481.8	-209.6	-365.4	-209.6	0.00	0.00	0.00
6,503.2	5.00	240.16	6,485.0	-209.7	-365.7	-209.7	0.00	0.00	0.00
Brushy Canyon									
6,600.0	5.00	240.16	6,581.4	-213.9	-373.0	-213.9	0.00	0.00	0.00
6,700.0	5.00	240.16	6,681.1	-218.3	-380.5	-218.3	0.00	0.00	0.00
6,800.0	5.00	240.16	6,780.7	-222.6	-388.1	-222.6	0.00	0.00	0.00
6,900.0	5.00	240.16	6,880.3	-227.0	-395.7	-227.0	0.00	0.00	0.00
7,000.0	5.00	240.16	6,979.9	-231.3	-403.2	-231.3	0.00	0.00	0.00
7,100.0	5.00	240.16	7,079.5	-235.6	-410.8	-235.6	0.00	0.00	0.00
7,200.0	5.00	240.16	7,179.2	-240.0	-418.3	-240.0	0.00	0.00	0.00
7,300.0	5.00	240.16	7,278.8	-244.3	-425.9	-244.3	0.00	0.00	0.00
7,400.0	5.00	240.16	7,378.4	-248.6	-433.5	-248.6	0.00	0.00	0.00
7,500.0	5.00	240.16	7,478.0	-253.0	-441.0	-253.0	0.00	0.00	0.00
7,600.0	5.00	240.16	7,577.6	-257.3	-448.6	-257.3	0.00	0.00	0.00
7,683.3	5.00	240.16	7,660.6	-260.9	-454.9	-260.9	0.00	0.00	0.00
7,700.0	4.75	240.16	7,677.3	-261.6	-456.1	-261.6	1.50	-1.50	0.00
7,800.0	3.25	240.16	7,777.0	-265.1	-462.2	-265.1	1.50	-1.50	0.00
7,900.0	1.75	240.16	7,876.9	-267.3	-465.9	-267.3	1.50	-1.50	0.00
8,000.0	0.25	240.16	7,976.9	-268.1	-467.5	-268.1	1.50	-1.50	0.00
8,016.7	0.00	0.00	7,993.6	-268.2	-467.5	-268.2	1.50	-1.50	0.00
8,100.0	0.00	0.00	8,076.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
8,200.0	0.00	0.00	8,176.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,276.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,376.9	-268.2	-467.5	-268.2			0.00
8,500.0	0.00	0.00	8,476.9	-268.2 -268.2	-467.5 -467.5	-268.2 -268.2	0.00 0.00	0.00 0.00	0.00
8,600.0	0.00	0.00	8,576.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
0,000,0	0.00	0.00	0,375.9	-200.2	-467.5	-208.2	0.00	0.00	υ.υυ

Planning Report

Database: Company: Project: Site:

EDM Central Planning ConocoPhillips MCBU

Permian Delaware Hz New Mexico
GOLDEN SPUR 36 COM W1 2H - PS
Golden Spur 36 COM W1 2H

Well: Golden Spur 36
Wellbore: Original Hole
Design: Prelim Design 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site GOLDEN SPUR 36 COM W1 2H - PS WELL @ 3171.0usft (Original Well Elev) WELL @ 3171.0usft (Original Well Elev)

Grid.

 These Contracts are experienced development and address development or to 	comments in included interested as	Maria de la composição de	and the second of the second	Administration of the second second	han little a Talker standardstatt. Australi	hiladist. Kalindari dan Tidakara	and Cirina Data and Circumstalia	aliadidare e e en era e e e e e e e e e e e e e e e e e e	or construction with the property of the prope
lanned Survey	1.2		000 (0000000) (3.2000 / 0.00 / 12/20000	,	A STATE OF THE PROPERTY OF THE	odunita reserver et Tabili antionitan	AND OUT TO SEE STATE OF THE SECOND	380000000000000000000000000000000000000	
		7.7							
Measured			10 - At - 10 - 10			V		n. 11.4	-
			Vertical			Vertical	Dogleg	Build	Turn
	lination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
8,700.0	0.00	0.00	8,676.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
8,800.0	0.00	0.00	8,776.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
8,900.0	0.00	0.00	8,876.9	-268.2	-467.5	-268.2	0.00	0.00	- 0.00
9,000.0	0.00	0.00	8,976.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
9,100.0	0.00	0.00	9,076.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
9,173.1	0.00	0.00							
	0.00	0.00	9,150.0	-268.2	-467.5	-268.2	0.00	0.00	0.00
Bone Springs	and the second			a jet		<i>3</i>			
9,200.0	0.00	0.00	9,176.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
9,300.0	0.00	0.00	9,276.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
9,400.0	0.00	0.00	9,376.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
9,500.0	0.00	0.00							
			9,476.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
9,600.0	0.00	0.00	9,576.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
9,700.0	0.00	0.00	9,676.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
9,800.0	0.00	0.00	9,776.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
9,900.0	0.00	0.00	9,876.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
10,000.0	0.00	0.00	9,976.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
10,100.0	0.00	0.00	10,076.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
10,200.0	0.00	0.00	10,176.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
10,200.0	0.00	0.00	10,170.5	-200.2	-407.5	-200.2	0.00	0.00	0.00
10,243.1	0.00	0.00	10,220.0	-268.2	-467.5	-268.2	0.00	0.00	0.00
Bone Springs 3r	d Carb			4 949 7	S. 1. (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				
10,300.0	0.00	0.00	10,276.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
10,400.0	0.00	0.00	10,376.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
10,500.0	0.00	0.00	10,476.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
10,600.0	0.00	0.00	10,576.9	-268.2	-467.5	-268.2	0.00		
10,000.0	0.00	0.00	10,570.5	-200.2	-407.3	-200.2	0.00	0.00	0.00
10,700.0	0.00	0.00	10,676.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
10,800.0	0.00	0.00	10,776.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
10,900.0	0.00	0.00	10,876.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
11,000.0	0.00	0.00	10,976.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
11,055.2	0.00	0.00	11,032.1	-268.2	-467.5	-268.2	0.00	0.00	0.00
11,100.0	4.48	359.39	11,076.8	-266.4	-467.5	-266.4	10.00	10.00	0.00
11,200.0	14.48	359.39	11,175.4	-249.9	-467.7	-249.9	10.00	10.00	0.00
11,300.0	24.48	359.39	11,269.5	-216.6	-468.0	-216.6	10.00	10.00	0.00
11,368.5	31.33	359.39	11,330.0	-184.6	-468.4	-184.6	10.00	10.00	0.00
Wolfcamp							•		
11,400.0	34.48	359.39	11,356.4	-167.5	-468.6	-167.5	10.00	10.00	0.00
11 500 0	44.40	250.20	11 400 5						
11,500.0	44.48	359.39	11,433.5	-104.0	-469.2	-104.0	10.00	10.00	0.00
11,600.0	54.48	359.39	11,498.4	-28.1	-470.1	-28.1	10.00	10.00	0.00
11,658.7	60.35	359.39	11,530.0	21.3	-470.6	21.3	10.00	10.00	0.00
Wolfcamp 1			* * .	A					
11,700.0	64.48	359.39	11,549.1	58.0	-471.0	58.0	10.00	10.00	0.00
11,800.0	74.48	359.39	11,584.1	151.5	-472.0	151.5	10.00	10.00	0.00
11,879.3	82.41	359.39	11,600.0	220.4	470.0	220.4	40.00	40.00	0.00
	02.41	359.39		229.1	-472.8	229.1	10.00	10.00	0.00
7 5/8"			1						
11,900.0	84.48	359.39	11,602.4	249.7	-473.0	249.7	10.00	10.00	0.00
11,955.2	90.00	359.39	11,605.0	304.8	-473.6	304.8	10.00	10.00	0.00
12,000.0	90.00	359.39	11,605.0	349.6	-474.1	349.6	0.00	0.00	0.00
12,100.0	90.00	359.39	11,605.0	449.6	-475.2	449.6	0.00	0.00	0.00
12,200.0	90.00	359.39	11,605.0	549.6	-476.3	549.6	0.00	0.00	0.00
12,300.0	90.00	359.39	11,605.0	649.6	-477.3	649.6	0.00	0.00	0.00
12,400.0	90.00	359.39	11,605.0	749.6	-478.4	749.6	0.00	0.00	0.00
12,500.0	90.00	359.39	11,605.0	849.6	-479.5	849.6	0.00	0.00	0.00
	90.00	359.39	11,605.0	949.6	-480.6	949.6	0.00	0.00	0.00
12,600.0	50.00		,						

Planning Report

Database: Company: Project:

Site:

EDM.Central Planning ConocoPhillips MCBU

Permian Delaware Hz New Mexico
GOLDEN SPUR 36 COM W1 2H - PS.
Golden Spur 36 COM W1 2H

Well: Golden Spur 36
Wellbore: Original Hole
Design: Prelim Design 1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Site GOLDEN SPUR 36 COM W1 2H - PS WELL @ 3171.0usft (Original Well Elev) WELL @ 3171.0usft (Original Well Elev) Grid

Planned Survey	i da ja vilo i savidimentos sastas.				a de la companya de l				
r.iaiiieu Suivey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	'7" / ***********************************	(°/100usft)	(°/100usft)
		Solomora Palanda Albanda e							
12,800.0	90.00	359.39	11,605.0	1,149.6	-482.7	1,149.6	0.00	0.00	0.00
12,900.0	90.00	359.39	11,605.0	1,249.5	-483.8	1,249.5	0.00 0.00	0.00 0.00	0.00 0.00
13,000.0	90.00 90.00	359.39 359.39	11,605.0 11,605.0	1,349.5 1,449.5	-484.8 -485.9	1,349.5 1,449.5	0.00	0.00	0.00
13,100.0									i
13,200.0	90.00	359.39	11,605.0	1,549.5	-487.0	1,549.5	0.00	0.00	0.00
13,300.0	90.00	359.39	11,605.0	1,649.5	-488.1	1,649.5	0.00	0.00	0.00
13,400.0	90.00	359.39	11,605.0	1,749.5	-489.1	1,749.5	0.00	0.00	0.00
13,500.0	90.00	359.39	11,605.0	1,849.5	-490.2	1,849.5	0.00	0.00 0.00	0.00 0.00
13,600.0	90.00	359.39	11,605.0	1,949.5	-491.3	1,949.5	0.00	0.00	ĺ
13,700.0	90.00	359.39	11,605.0	2,049.5	-492.4	2,049.5	0.00	0.00	0.00
13,800.0	90.00	359.39	11,605.0	2,149.5	-493.4	2,149.5	0.00	0.00	0.00
13,900.0	90.00	359.39	11,605.0	2,249.5	-494.5	2,249.5	0.00	0.00	0.00
14,000.0	90.00	359.39	11,605.0	2,349.5	-495.6	2,349.5	0.00	0.00	0.00
14,100.0	90.00	359.39	11,605.0	2,449.5	-496.7	2,449.5	0.00	0.00	0.00
14,200.0	90.00	359.39	11,605.0	2,549.5	-497.7	2,549.5	0.00	0.00	0.00
14,300.0	90.00	359.39	11,605.0	2,649.5	-498.8	2,649.5	0.00	0.00	0.00
14,400.0	90.00	359.39	11,605.0	2,749.5	-499.9	2,749.5	0.00	0.00	0.00
14,500.0	90.00	359.39	11,605.0	2,849.5	-500.9	2,849.5	0.00	0.00	0.00
14,600.0	90.00	359.39	11,605.0	2,949.4	-502.0	2,949.4	0.00	0.00	0.00
14,700.0	90.00	359.39	11,605:0	3,049.4	-503.1	3,049.4	0.00	0.00	0.00
14,800.0	90.00	359.39	11,605.0	3,149.4	-504.2	3,149.4	0.00	0.00	0.00
14,900.0	90.00	359.39	11,605.0	3,249.4	-505.2	3,249.4	0.00	0.00	0.00
15,000.0	90.00	359.39	11,605.0	3,349.4	-506.3	3,349.4	0.00	0.00	0.00
15,100.0	90.00	359.39	11,605.0	3,449.4	-507.4	3,449.4	0.00	0.00	0.00
15,200.0	90.00	359.39	11,605.0	3,549.4	-508.5	3,549.4	0.00	0.00	0.00
15,300.0	90.00	359.39	11,605.0	3,649.4	-509.5	3,649.4	0.00	0.00	0.00
15,400.0	90.00	359.39	11,605.0	3,749.4	-510.6	3,749.4	0.00	0.00	0.00
15,500.0	90.00	359.39	11,605.0	3,849.4	-511.7	3,849.4	0.00	0.00	0.00
15,600.0	90.00	359.39	11,605.0	3,949.4	-512.8	3,949.4	0.00	0.00	0.00
15,700.0	90.00	359.39	11,605.0	4,049.4	-513.8	4,049.4	0.00	0.00	0.00
15,800.0	90.00	359.39	11,605.0	4,149.4	-514.9	4,149.4	0.00	0.00	0.00
15,900.0	90.00	359.39	11,605.0	4,249.4	-516.0	4,249.4	0.00	0.00	0.00
16,000.0	90.00	359.39	11,605.0	4,349.4	-517.0	4,349.4	0.00	0.00	0.00
16,100.0	90.00	359.39	11,605.0	4,449.4	-518.1	4,449.4	0.00	0.00	0.00
16 200 0	90.00	359.39	11,605.0	4,549.4	-519.2	4,549.4	0.00	0.00	0.00
16,200.0	90.00	359.39	11,605.0	4,649.4	-520.3	4,649.4	0.00	0.00	0.00
16,400.0	90.00	359.39	11,605.0	4,749.3	-521.3	4,749.3	0.00	0.00	0.00
16,500.0	90.00	359.39	11,605.0	4,849.3	-522.4	4,849.3	0.00	0.00	0.00
16,600.0	90.00	359.39	11,605.0	4,949.3	-523.5	4,949.3	0.00	0.00	0.00
16,700.0	90.00	359.39	11,605.0	5,049.3	-524.6	5,049.3	0.00	0.00	0.00
16,700.0	90.00	359.39	11,605.0	5,049.3 5,149.3	-524.6 -525.6	5,049.3	0.00	0.00	0.00
16,900.0	90.00	359.39	11,605.0	5,249.3	-526.7	5,249.3	0.00	0.00	0.00
17,000.0	90.00	359.39	11,605.0	5,349.3	-527.8	5,349.3	0.00	0.00	0.00
17,100.0	90.00	359.39	11,605.0	5,449.3	-528.8	5,449.3	0.00	0.00	0.00
17,200.0 17,300.0	90.00 90.00	359.39 359.39	11,605.0 11,605.0	5,549.3 5,649.3	-529.9 -531.0	5,549.3 5,649.3	0.00 0.00	0.00 0.00	0.00 0.00
17,300.0	90.00	359.39 359.39	11,605.0	5,649.3 5,749.3	-531.0 -532.1	5,649.3 5,749.3	0.00	0.00	0.00
17,400.0	90.00	359.39 359.39	11,605.0	5,749.3 5,849.3	-532.1 -533.1	5,749.3 5,849.3	0.00	0.00	0.00
17,600.0	90.00	359.39	11,605.0	5,949.3	-534.2	5,949.3	0.00	0.00	0.00
1									
17,700.0	90.00	359.39	11,605.0	6,049.3	-535.3	6,049.3	0.00	0.00	0.00
17,800.0	90.00	359.39	11,605.0	6,149.3	-536.4	6,149.3	0.00	0.00	0.00
17,900.0	90.00	359.39	11,605.0	6,249.3	-537.4	6,249.3	0.00	0.00	0.00
18,000.0	90.00	359.39	11,605.0	6,349.3	-538.5	6,349.3	0.00	0.00	0.00 0.00
18,100.0	90.00	359.39	11,605.0	6,449.2	-539.6	6,449.2	0,00	0.00	. 0.00

Planning Report

Database: Company: Project: Site:

EDM Central Planning ConocoPhillips MCBU

Permian Delaware Hz New Mexico GOLDEN SPUR 36 COM W1 2H - PS Golden Spur 36 COM W1 2H

Well: Original Hole Wellbore: Prelim Design 1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method Site GOLDEN SPUR 36 COM W1 2H - PS WELL @ 3171.0usft (Original Well Elev) WELL @ 3171.0usft (Original Well Elev)

Grid:

Minimum Curvature

200	80.0		reges		
PI	an	ne	48	115	vey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100úsft)	Turn Rate (?/100usft)
18,200.0	90.00	359.39	11,605.0	6,549.2	-540.7	6,549.2	0.00	0.00	0.00
18,300.0	90.00	359.39	11,605.0	6,649.2	-541.7	6,649.2	0.00	0.00	0.00
18,400.0	90.00	359.39	11,605.0	6,749.2	-542.8	6,749.2	0.00	0.00	0.00
18,500.0	90.00	359.39	11,605.0	6,849.2	-543.9	6,849.2	0.00	0.00	0.00
18,600.0	90.00	359.39	11,605.0	6,949.2	-544.9	6,949.2	0.00	0.00	0.00
18,700.0	90.00	359.39	11,605.0	7,049.2	-546.0	7,049.2	0.00	0.00	0.00
18,800.0	90.00	359.39	11,605.0	7,149.2	-547.1	7,149.2	0.00	0.00	0.00
18,834.8	90.00	359.39	11,605.0	7,184.0	-547.5	7,184.0	0.00	0.00	0.00
5"			P. 1	1 18	· · · ·	* % · *			

Targets Target Name

10000000	XX.		arcenta.	(menan	W. 188
17:329	- hit	mı.	RS T	ara	$\mathbf{ar} =$
Rivota	Carron	Aug 1987s.	and the second		
D 3000	Was.	2085.S	C.330		
100000	- sn	ape	3330		200
19999	Milwani	453. (48	2,300		

GS_36_W1_2H_VT

			TVD (usft

0.00

0.00

- plan misses target center by 539.1usft at 20.0usft MD (20.0 TVD, 0.0 N, 0.0 E)

0.00

0.00 20.0

11,605.0

-268.2

7,184.0

+N/-S

(usft)

+E/-W (usft)

-547.5

(usft) 364,336.21

371,788.47

Northing

688,340.19

Easting

(usft)

688,260.33

32° 0' 0.788 N

32° 1' 14.542 N

103° 43' 32.799 W

103° 43' 33.240 W

GS_36_W1_2H_BHL

- plan hits target center - Point

F-812)		988 ş	
ina	Po	int	s û

Casing Points				
Measured	Vertical		Casing Hole	
Depth	Depth		Diameter Diameter	
(usft)	(usft)		Name (") (")	
990.0	990.0	13 3/8"	13-3/8 17-1/2	
4,174.3	4,165.0	9 5/8"	9-5/8 12-1/4	
11,879.3	11,600.0	7 5/8"	7-5/8 8-3/4	
18,834,8	11,605.0	5"	5-1/2 6-3/4	

Formations

Measured		Dip " " ' '	
Depth (usft)	Depth (usft)	-Dip Direction Name Lithology (°) (°)	
9,173.	1 9,150.0	Bone Springs	
5,122.	9 5,110.0	Cherry Canyon	
11,658.	7 11,530.0	Wolfcamp 1	
920.0	920.0	Rustler	
1,355.0	1,355.0	Salado	
4,174.3	3 4,165.0	Delaware	
10,243.	1 10,220.0	Bone Springs 3rd Carb	
4,244.0	6 4,235.0	Ford Shale	
6,503.:	2 6,485.0	Brushy Canyon	;
2,302.:	2,300.0	Castile	1
11,368.	5 11,330.0	Wolfcamp	

Planning Report

Database: EDM Central Planning Company: ConocoPhillips MCBU

Project: Permian Delaware Hz New Mexico
Site: GOLDEN SPUR 36 COM W1 2H - PS
Well: Golden Spur 36 COM W1 2H

Wellbore: Original Hole
Design: Prelim Design 1

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

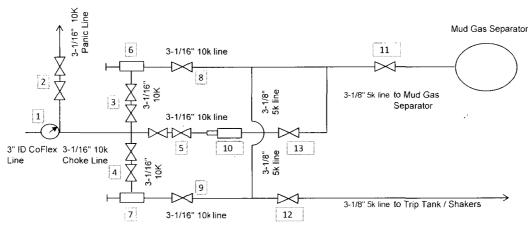
North Reference: Survey Calculation Method: Site GOLDEN SPUR 36 COM W1 2H - PS WELL @ 3171.0usft (Original Well Elev) WELL @ 3171.0usft (Original Well Elev)

Grid

CHOKE MANIFOLD ARRANGEMENT - HP486

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

Vent line to flare



All Tees must be Targeted

Item	Description
ICCITI	Description

- Pressure Gauge
 - 2 Gate Valves, 3-1/16" 10M
- 2 Gate Valves, 3-1/16" 10M
- 2 Gate Valves, 3-1/16" 10M
- 2 Gate Valves, 3-1/16" 10M
- Upper Manual Adjustable Choke, 4-1/16", 10M
- Lower Manual Adjustable Choke, 4-1/16", 10M
- Gate Valve, 3-1/16" 10M Gate Valve, 3-1/16" 10M 8
- Remote Controlled Hydraulic Adjustable Choke, 4-1/16", 10M 10
- 11 Gate Valve, 3-1/8" 5M
- Gate Valve, 3-1/8" 5M
- Gate Valve, 3-1/16" 10M

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

Drawn by.

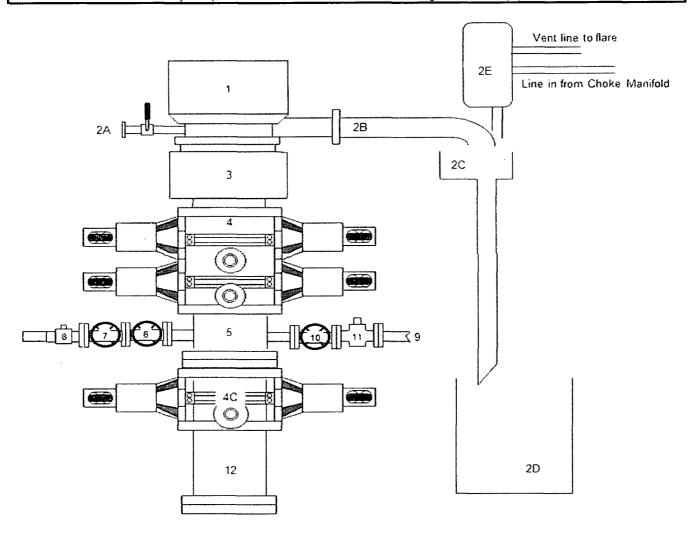
James Chen, P.E.

Drilling Engineer, ConocoPhillips Company

Date: June 25th-2014

BLOWOUT PREVENTER ARRANGEMENT - H&P486

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



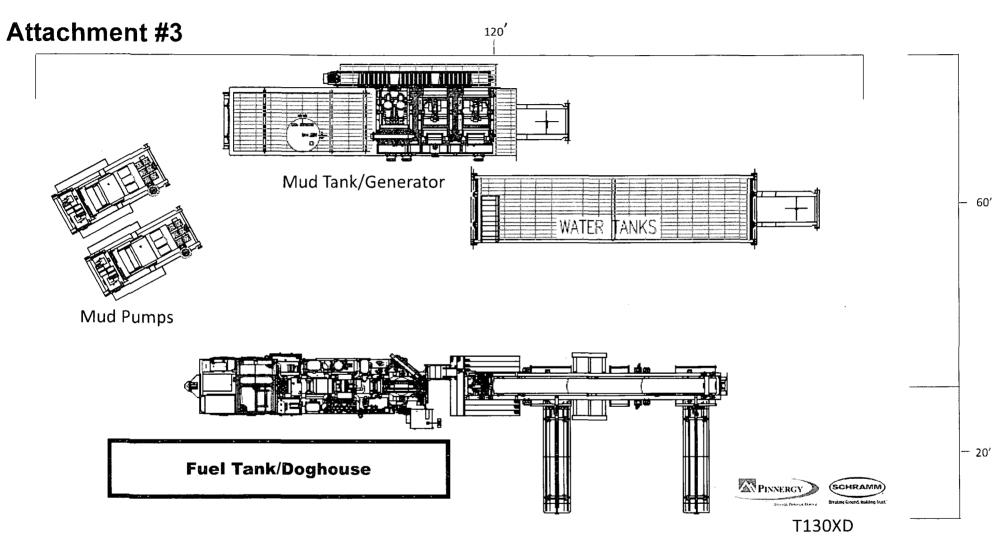
Item	Description
1	Rotating Head
2A	Fill up Line and Valve
2B	Flow Line (8")
. 2C	Shale Shakers and Centrifuges
2D	Cuttings Bins for Zero Discharge
2E	Mud Gas Separator with vent line to flare and return line to mud system
3	Annular Preventer (13-5/8", 10M)
4	Double Ram (13-5/8", 10M, Bline Ram bottom 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 hoke 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.

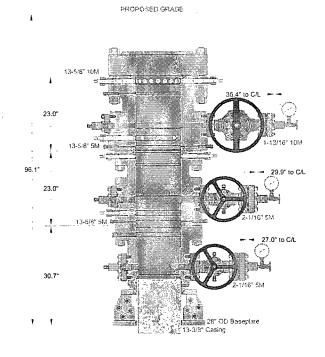
Drilling Engineer, ConocoPhillips Company

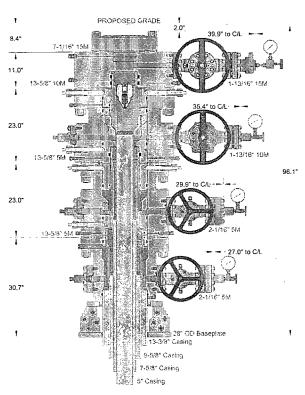
Date: June 25th-2014

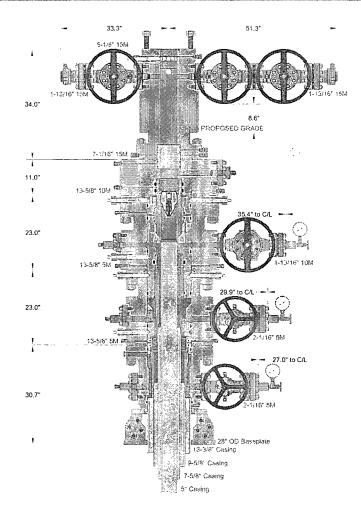


"Pinnergy #1" Spudder Rig Layout

Attachment #3







SPUD CONFIGURATION

DRILL & SKID CONFIGURATION

COMPLETION CONFIGURATION

CACTUS WELLHEAD LLC	1	IOCOPHIL 3 CONFIG	LIPS URATION
13-3/8" x 9-5/8" x 7-5/8" x 5" 5M MBS2 Wellhead System	DRAWN.	THH	23FEB15
With 13-5/8" 10M x 7-1/16" 15M DBLHPS DSPA And	APP#V		
7-1/16" 15M x 5-1/8" 15M CMT-FB-EN Tubing Head, 34" Tall	DRAWING NO.	ODE00	00491

INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTON WELLHARD, LLC, REPRODUCTION DISCUSSIVE, OR USE THEREOF IS PERMISSIVE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY ANYHOMEDED OF CACHON WELLHARD, LLC.

Attachment #5

January 28 2014



Size: 7.625 in. **Wall**: 0.375 in.

Weight: 29.70 lbs/ft

Grade: P110 Min. Wall Thickness: 87.5 %

Connection: Wedge 523[™] **Casing/Tubing**: CAS

Nominal OD :					
	7. 625 in.	Nominal Weight	29.70 lbs/ft	Standard Drift Diameter	6.750 in.
Nominal ID (6.875 in.	Wall Thickness	0.375 in.	Special Drift Diameter	N/A
Plain End Weight	29.06 lbs/ft				
		PERFORM	ANCE		
Body Yield Strength	940 x 1000 lbs	Internal Yield	9470 psi	SMYS	110000 psi
Collapse !	5350 psi				
	_				
· · · · · · · · · · · · · · · · · · ·	v	VEDGE 523™ CON		A	
	<u> </u>	GEOMET		T	
Connection OD	7.752 in.	Connection ID	6.800 in.	Make-Up Loss	4.420 in.
Critical Section Area	6.021 sq. in.	Threads per in.	3.29		
		PERFORM	ANCE		
Tension Efficiency	70.5 %	Joint Yield Strength	663 x 1000	Internal Pressure Capacity	9470 psi
Compression Strength	768 x 1000 lbs	Compression Efficiency	81.7 %	Bending	47 °/100 ft
External Pressure Capacity	5350 psi				
		MAKE-UP TO	RQUES		
Minimum	9900 ft-lbs	Target	11900 ft-lbs	Maximum (±)	17300 ft-lbs
		OPERATIONAL LIP	MIT TORQUES		
Operating Torque	52000 ft-lbs	Yield Torque	78000 ft-lbs		

^{*} 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



Minimum

1070 ft-lbs

Size: 5.000 in. Wall: 0.362 in.

Weight: 18.00 lbs/ft

Grade: P110

Connection: Blue® Casing/Tubing: CAS Coupling Option: REGULAR Min. Wall Thickness: 87.5 %

		GEOMET	rry		
Nominal OD	5.000 in.	Nominal Weight	18.00 lbs/ft	Standard Drift Diameter	4.151 in.
Nominal ID	4.276 in.	Wall Thickness	0.362 in.	Special Drift Diameter	N/A
Plain End Weight	17.95 lbs/ft				
		PERFORM	ANCE		
Body Yield Strength	580 x 1000 lbs	Internal Yield	13940 psi	SMYS	110000 psi
Collapse	13470 psi				
		BLUE® CONNEC			
Connection OD	5.630 in.	GEOME1		Connection ID	4.264 in.
	5.630 III.	Coupling Length	10.551 in.	Connection ID	4.264 In.
Critical Section Area	5.275 sq. in.	Make-Up Loss	4.579 in.	Threads per in.	5.00
		PERFORM	ANCE		
Tension Efficiency	100 %	Joint Yield Strength	580 x 1000 lbs	Internal Pressure Capacity	13940 psi
Compression Efficiency	100 %	Compression Strength	580 × 1000	Bending	101 °/100 f
External Pressure Capacity	13470 psi				
		MAKE-UP TO	ORQUES		
Minimum	6400 ft-lbs	Target	7110 ft-lbs	Maximum	7820 ft-lbs
		OPERATIONAL LIN	MIT TORQUES	; · · · · · · · · · · · · · · · · · · ·	
Operating Torque	ASK	Yield Torque	17600 ft-lbs		
		SHOULDER T	ODOLLEC	******	****

6040 ft-lbs

Maximum

BLANKING DIMENSIONS

Blanking Dimensions

Datasheet is also valid for Special Bevel option when applicable.

BLANKING DIMENSIONS

Blanking Dimensions

Datasheet is also valid for Special Bevel option when applicable.

December 18 2014



Size: 5.000 in. **Wall**: 0.362 in.

Weight: 18.00 lbs/ft

Grade: P110

Min. Wall Thickness: 87.5 %

Casing/Tubing: CAS

Connection: TenarisXP[™] BTC

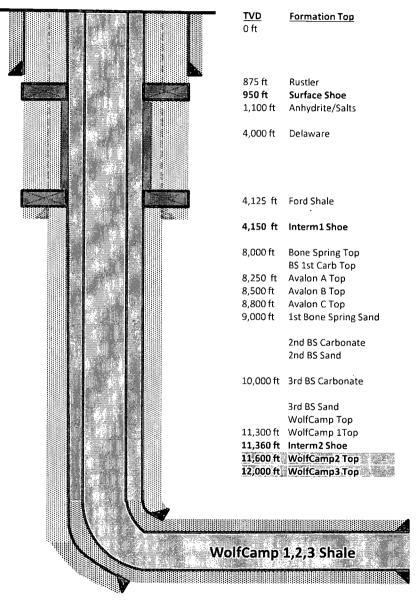
Coupling Option: REGULAR

		PIPE BODY	DATA		
		GEOMET	RY		,
Nominal OD	5.000 in.	Nominal Weight	18.00 lbs/ft	Standard Drift Diameter	4.151 in.
Nominal ID	4.276 in.	Wall Thickness	0.362 in.	Special Drift Diameter	N/A
Plain End Weight	17.95 lbs/ft				
		PERFORM	ANCE		
Body Yield Strength	580 x 1000 lbs	Internal Yield	13940 psi	SMYS	110000 psi
Collapse	13470 psi				
		· · · · · · · · · · · · · · · · · · ·	'	•	
	TEN	NARISXP™ BTC CO	NNECTION D	ATA	
	,	GEOMET	'RY		_
Connection OD	5.720 in.	Coupling Length	9.325 in.	Connection ID	4.264 in.
Critical Section Area	5.275 sq. in.	Threads per in.	5.00	Make-Up Loss	4.141 in.
		PERFORMA	ANCE		
Tension Efficiency	100 %	Joint Yield Strength	580 × 1000	Internal Pressure Capacity $^{(\underline{1})}$	13940 psi
Structural Compression Efficiency	100 %	Structural Compression Strength	580 x 1000 lbs	Structural Bending ⁽²⁾	101 °/100 f
External Pressure Capacity	13470 psi				
	E	STIMATED MAKE-U	IP TORQUES	3)	
Minimum	N/A ft-lbs	Target	N/A ft-lbs	Maximum	N/A ft-lbs
		OPERATIONAL LIN	IT TORQUES	5	
Operating Torque	ASK	Yield Torque	N/A ft-lbs		
		BLANKING DIM	IENSIONS		

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).

19,200 ft :TD ~6,500 ft :Lateral

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

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



Hose Data Sheet

CRI Order No.	516273
Customer	ContiTech Beattle Co.
Customer Order No	PO5438 STOCK
ltem 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 .
Warking 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 wap
Internal stripwound tube	No
Lining	OIL RESISTANT
Safety clamp	No
Lifting collar	No
Element C	No
Safety chain	No
Søfety 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



0C-DB- 45/2012

Page:

7/50

Fluid Technology

Quality Document

QUALIT	CERT. N*: 184						
PURCHASER:	CONTECH Beattle C					005438	
CONTITECH ORDER N°: 5	16273	HOSE TYPE: 3" ID		Choke and Kill Hose		nd Kill Hose	
HOSE SERIAL Nº:	61477	NOMINAL / ACTU/	: 10,67 m / 10,71 m				
W.P. 68,9 MPa 10	1000 pai	T.P. 103,4 M	Pa 1500	O psi	Duration:	60	min.
See attachment. (1 page)							
→ 10 mm = 20 MPa	<u> </u>		T				
COUPLINGS Type		Serial Nº		Quality AISI 4130		Hoat N°	
3" coupling with 1017		10173				20231	
4 1/16" 10K API Flange en	<u> </u>	**************************************	AISI 4130 3305			33051	
NOT DESIGNED FOR WELL TESTING API Spec 16 C							
Temperature rate:"B"							
WE CERTIFY THAT THE ABOVE INSPECTED AND PRESSURE TO					H THE TERM	49 OF THE ORDE	R
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 there items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the reference critiquia and design requirements. COUNTRY OF ORIGIN HUNGARY/EU							
Date: 30. January 2012.	Inspector		Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept (1) ALGCH The Control of the Control				

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Page: 171

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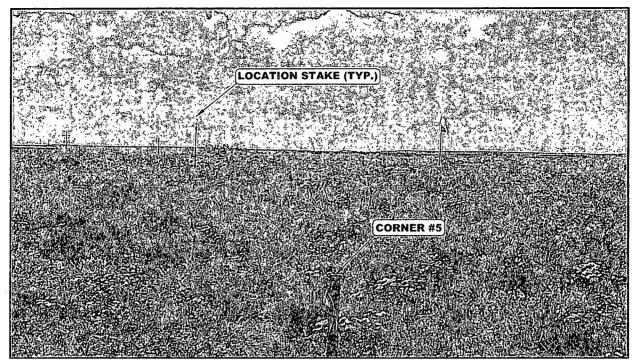


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: WESTERLY

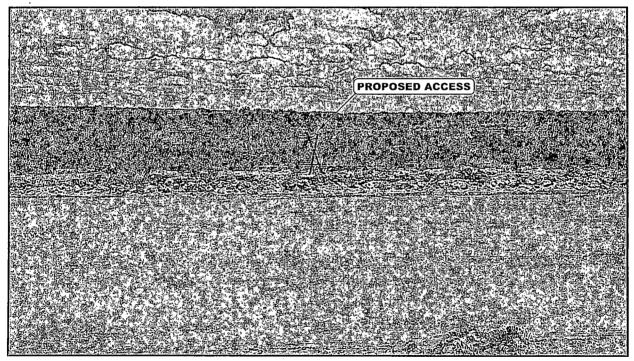


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

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

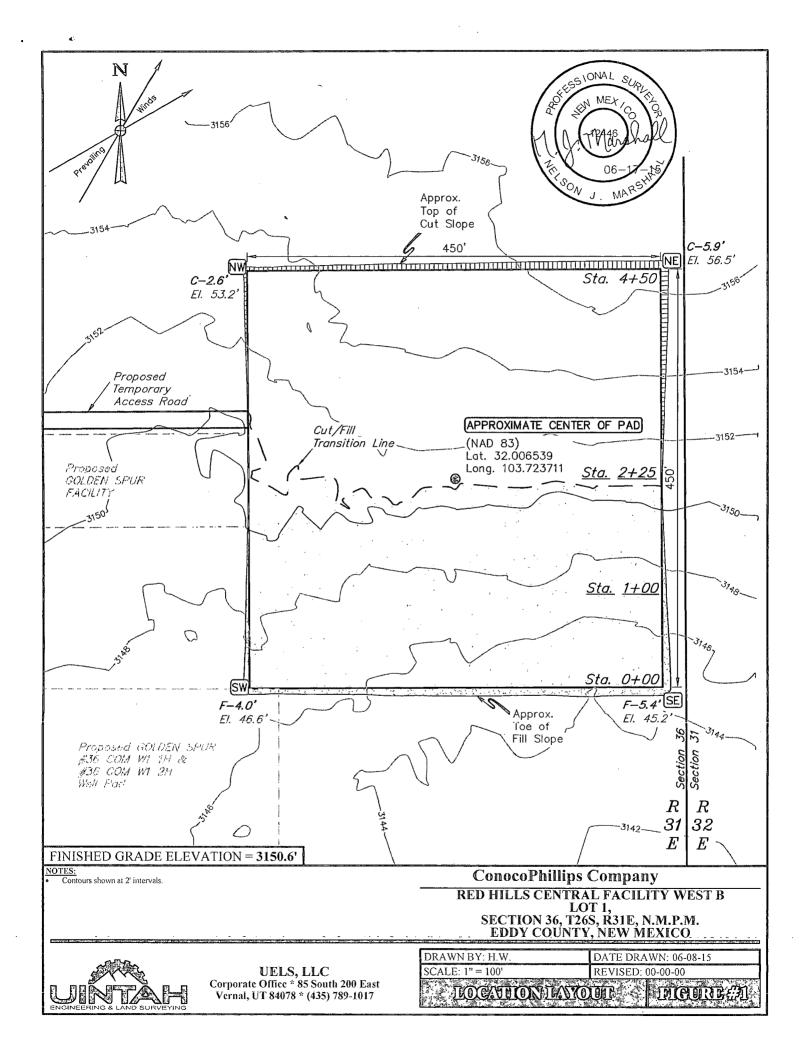


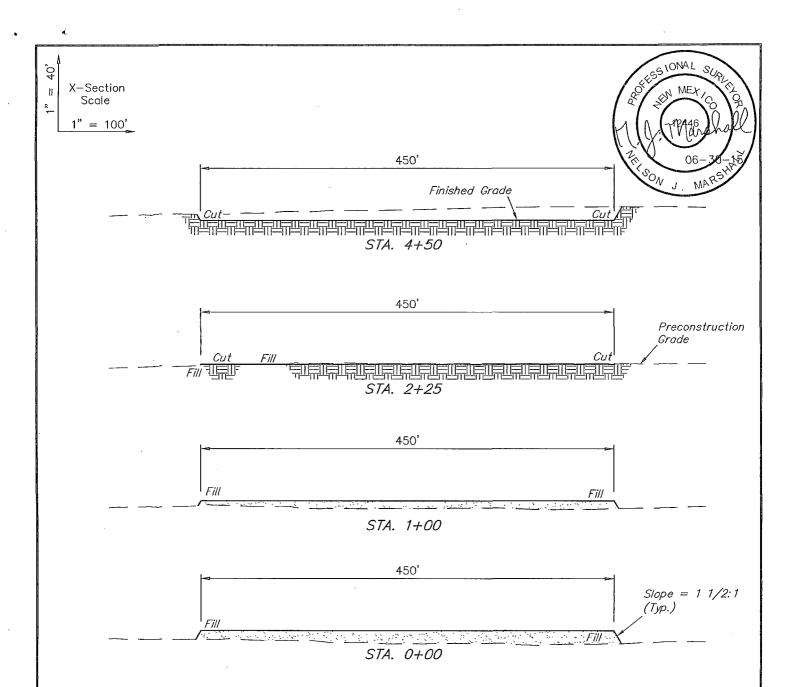
UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017
 DRAWN BY: C.B.
 DATE DRAWN: 12-2-2014

 TAKEN BY: J.V.
 REVISED: 05-12-15 R.C.

PROCEST TO SERVICE SER

3 73 8 (O)1 K(O);





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.			

	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				

NOTES

• Fill quantity includes 5% for compaction.

Deficit material to be obtained from approved borrow area.

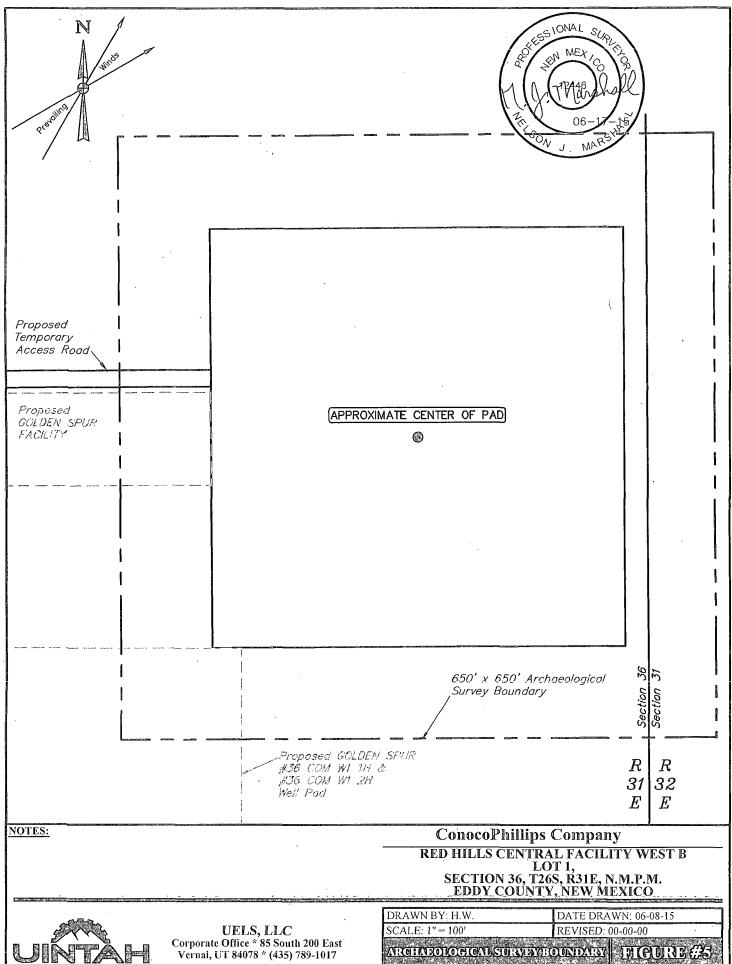
ConocoPhillips Company

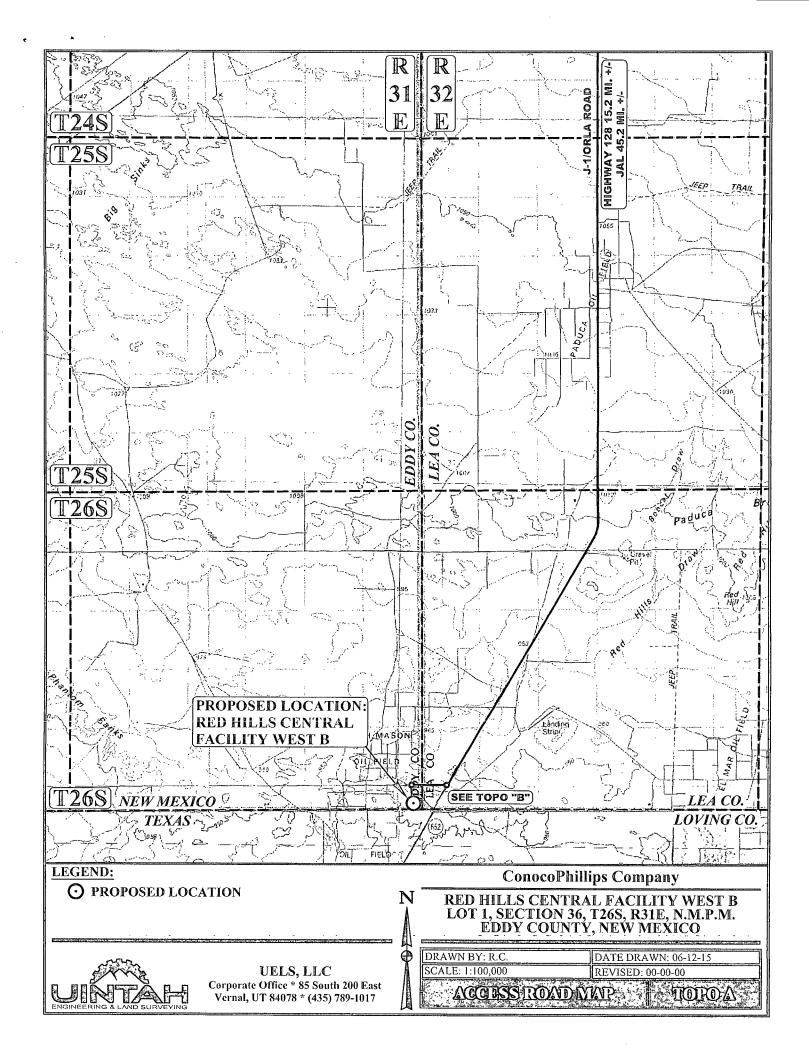
RED HILLS CENTRAL FACILITY WEST B LOT 1, SECTION 36, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO

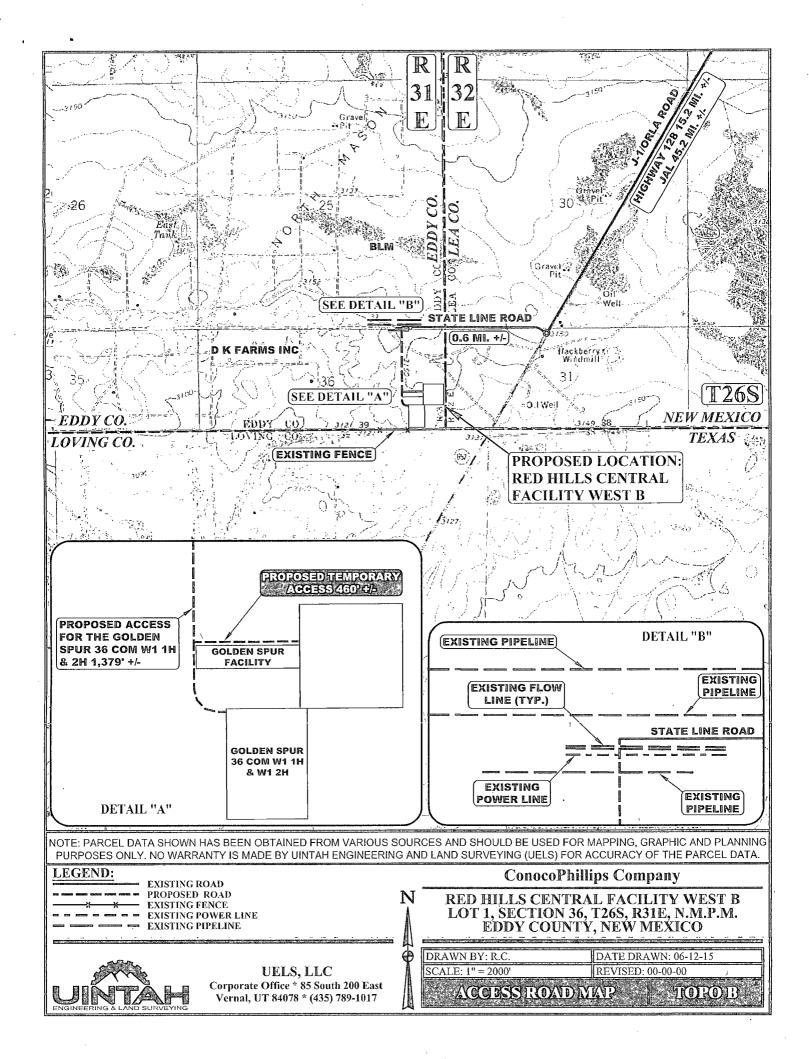


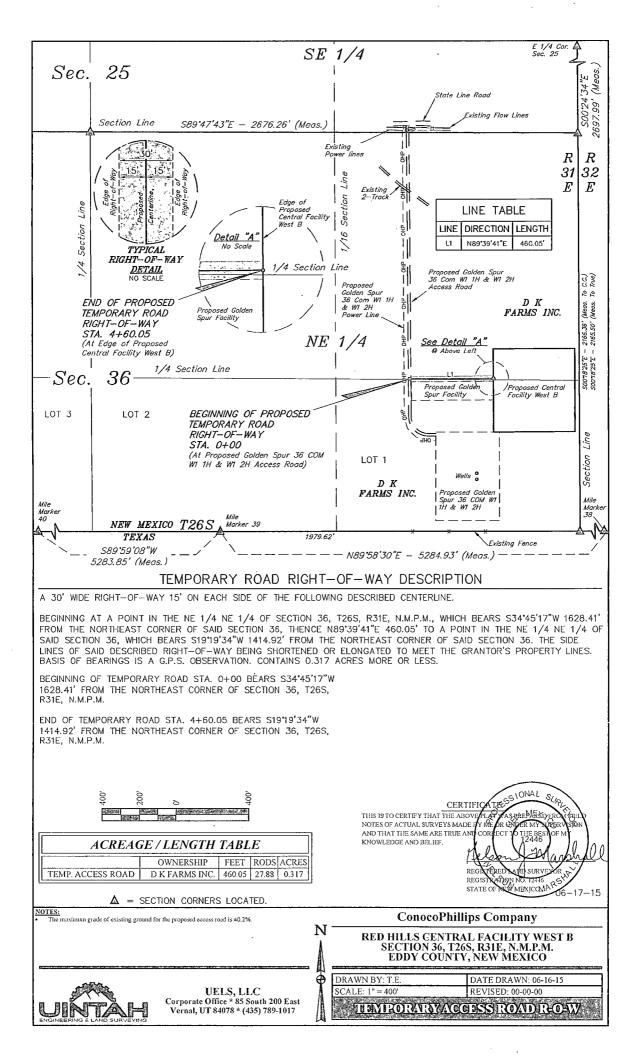
UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

DRAWN BY: H.W.	DATE DRAWN: 06-08-15
SCALE: AS SHOWN	REVISED: 06-30-15 B.D.H.
TYPE CAL CROSS SINC	HORS HEURE#2









BEGINNING AT THE INTERSECTION OF HIGHWAY 18 AND HIGHWAY 128 PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY JAL. NEW MEXICO DIRECTION FROM ALONG HIGHWAY 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 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



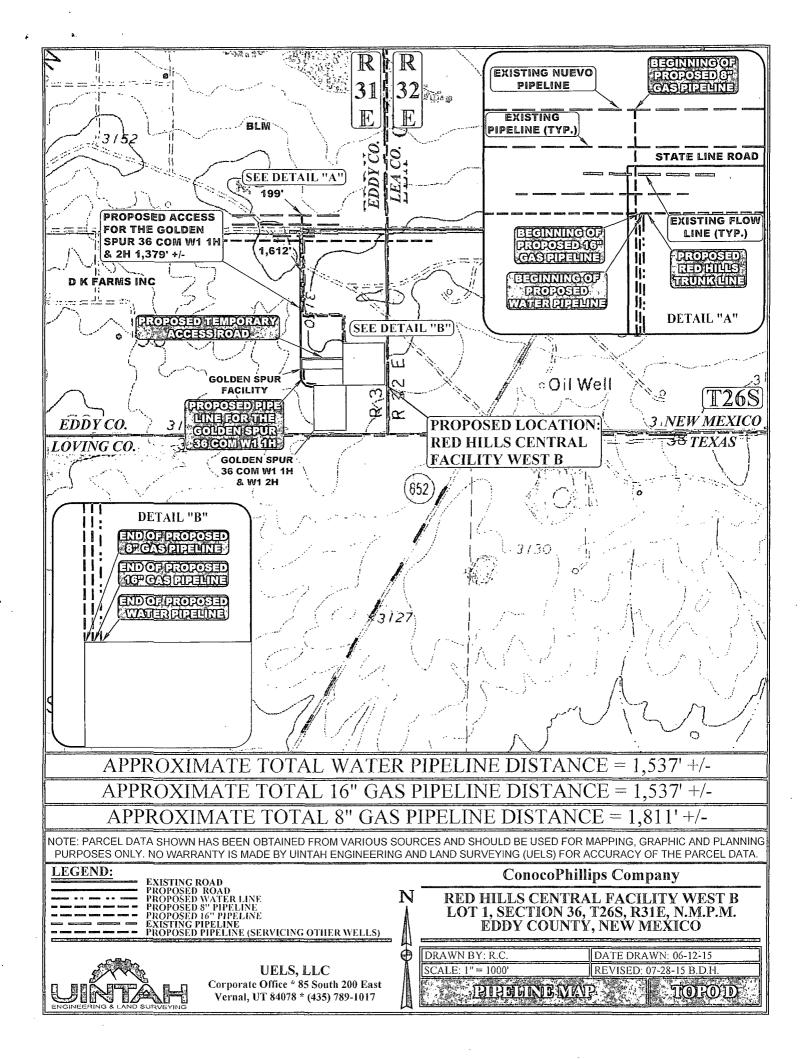
UELS, LLCCorporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

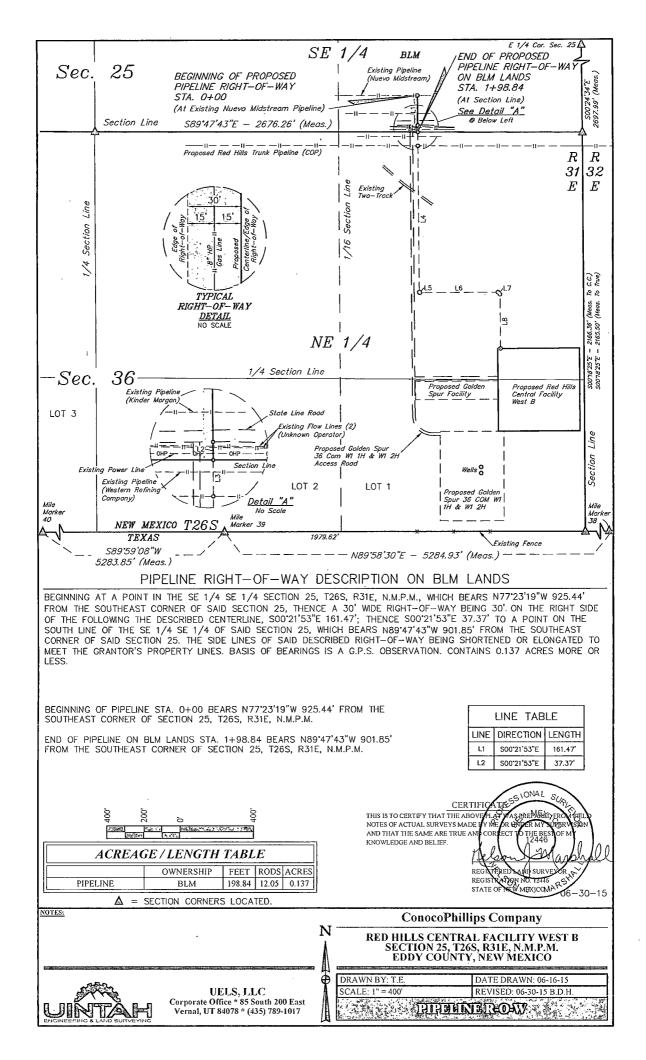
DRAWN BY: R.C.

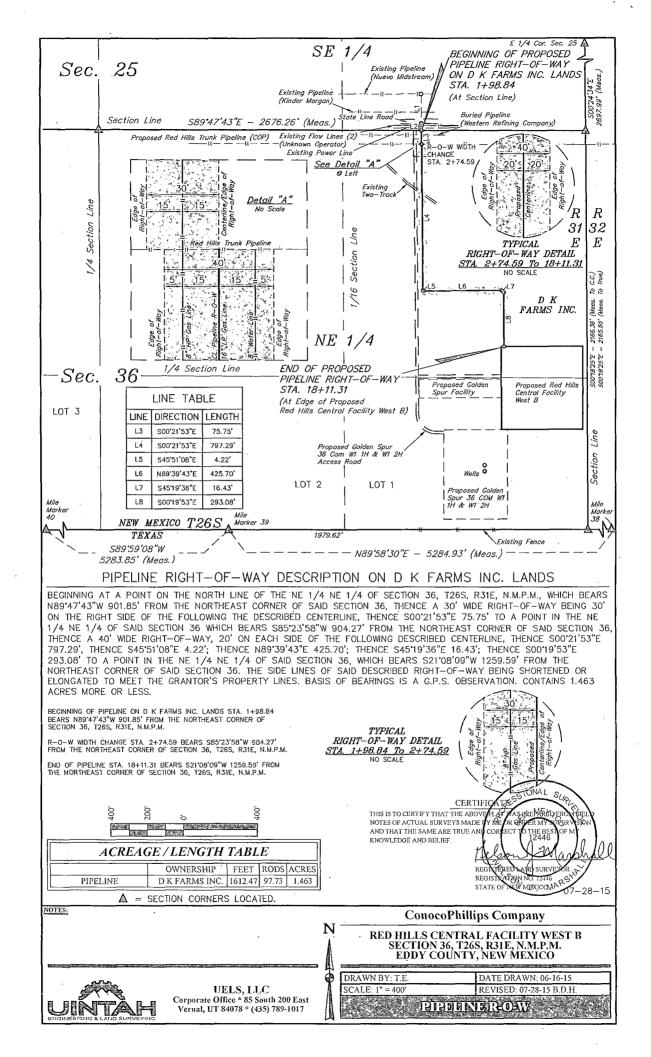
DATE DRAWN: 06-12-15

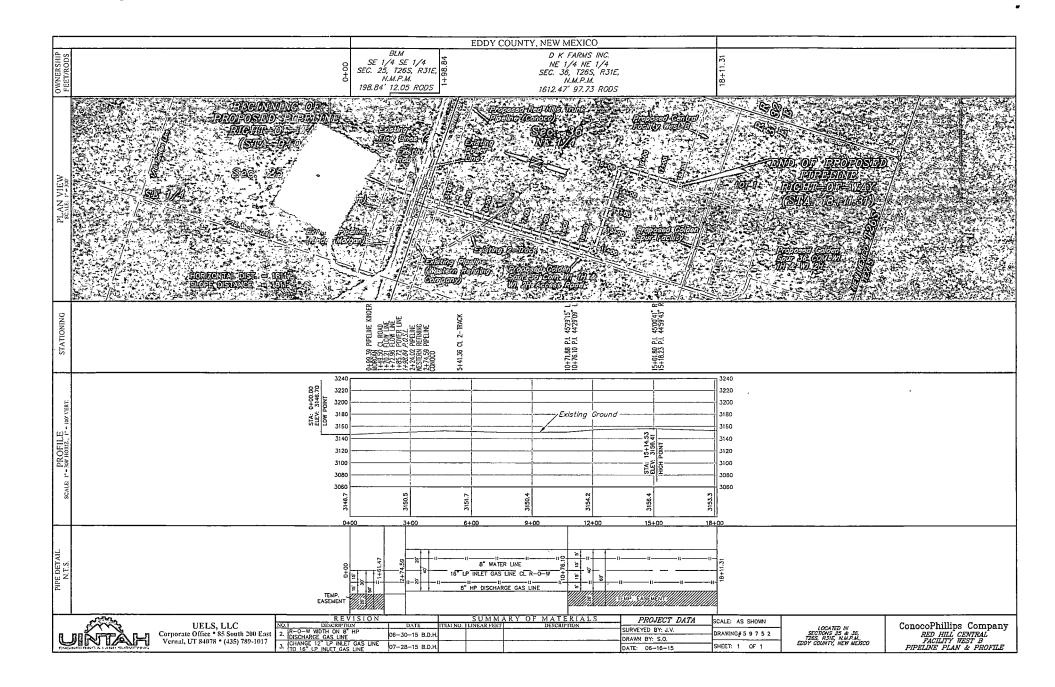
REVISED: 00-00-00

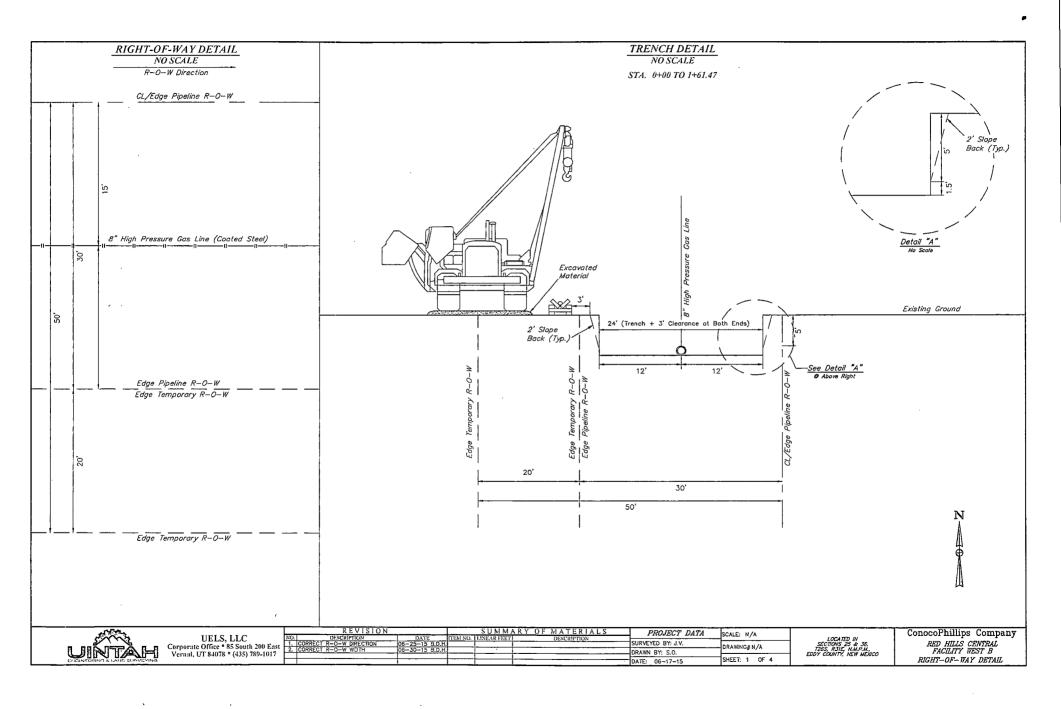
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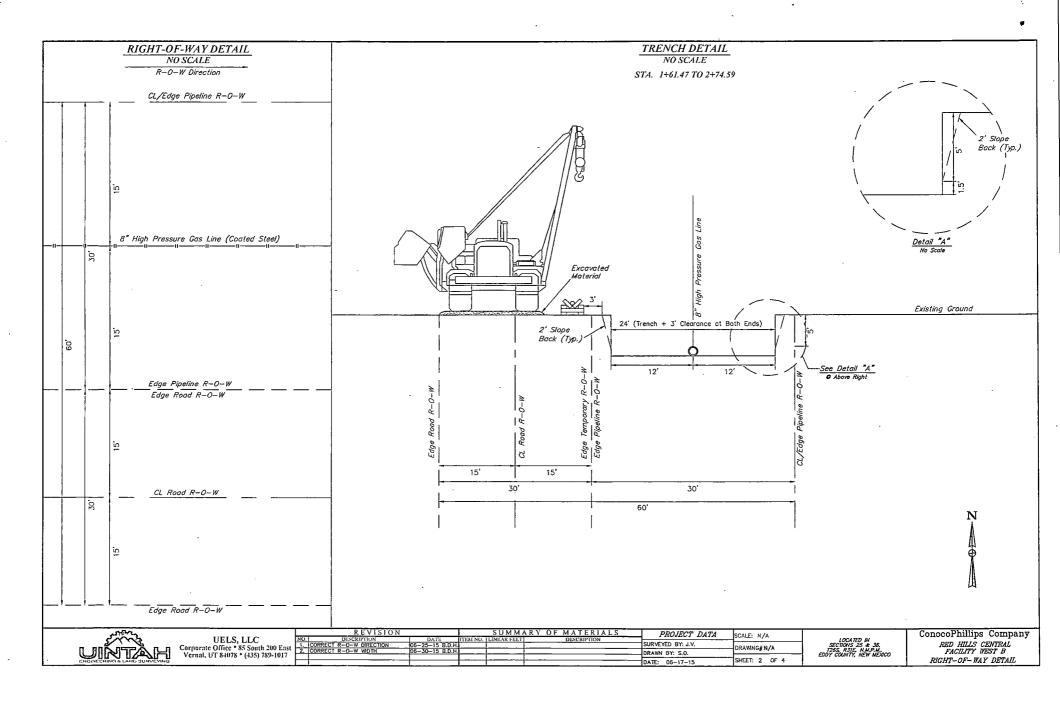


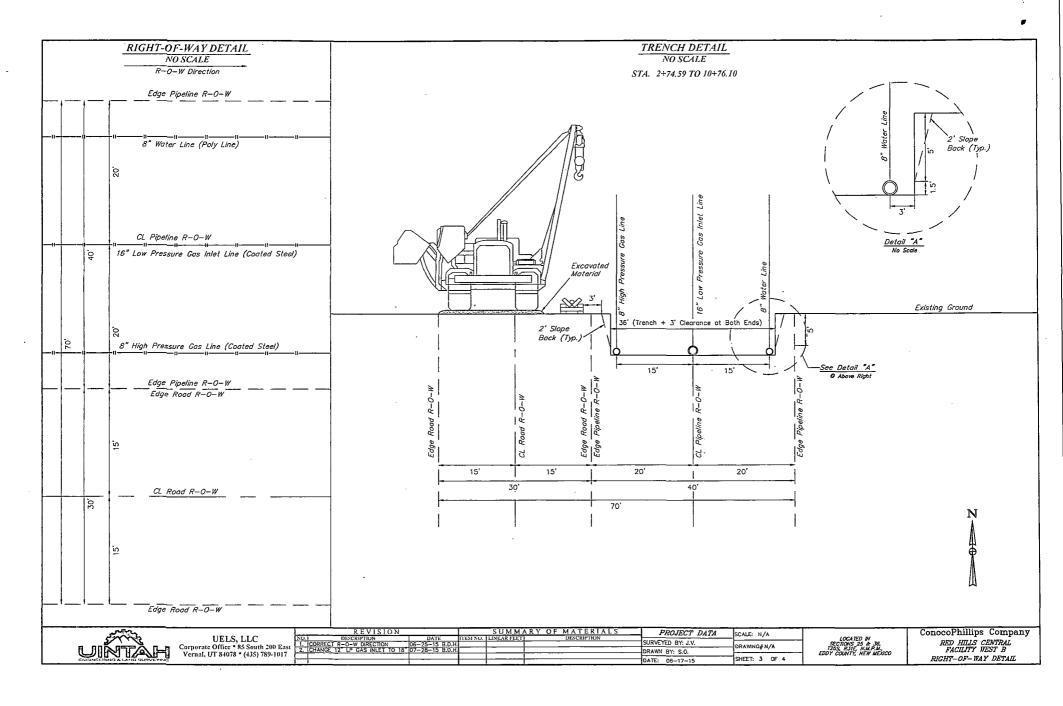






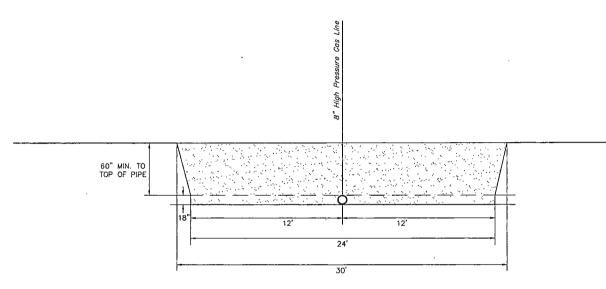






STA. 0+00 TO 2+74.59

R-O-W Direction



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

3" WATER LINE WILL BE POLY LINE

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

5' CLEARENCE AT BOTH ENDS



UELS, LLC	
Corporate Office * 85 South 200	
Vernal, UT 84078 * (435) 789-1	017

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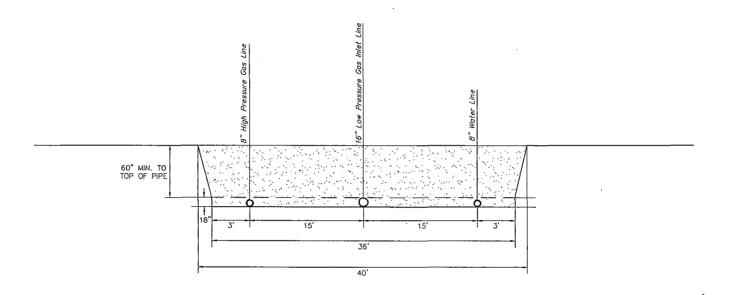




ConocoPhillips Company
RED HILLS CENTRAL
FACILITY WEST B
BACKFILL DIAGRAM

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' CLEARENCE AT BOTH ENDS

15' CLEARENCE BETWEEN EACH PIPE

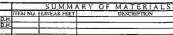


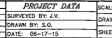
UELS, LLC	
Corporate Office * 85 South 200 E:	
Vernal, UT 84078 * (435) 789-101	7

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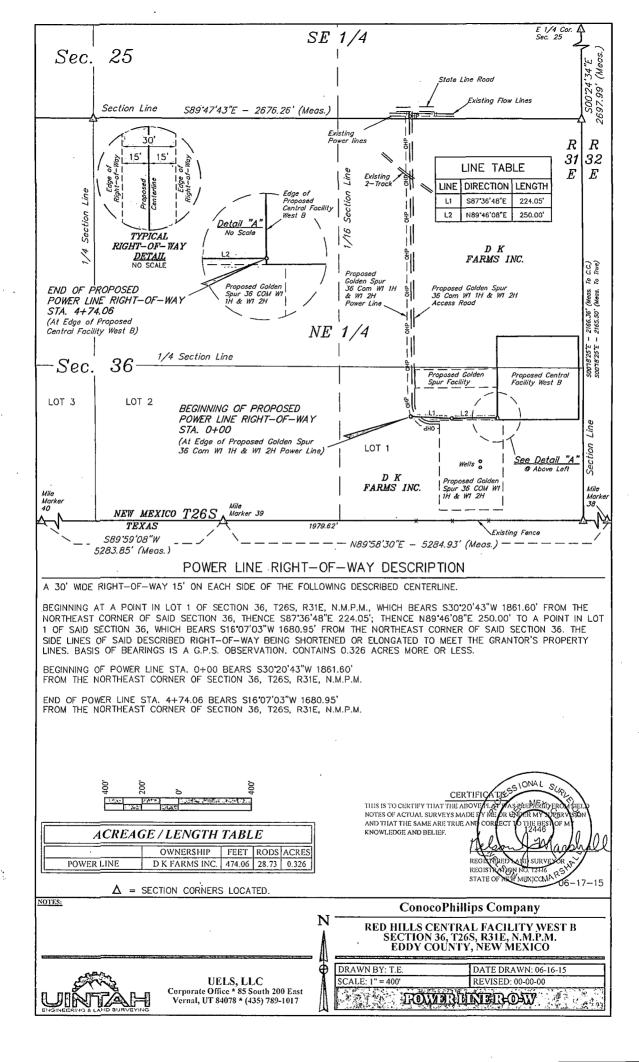
REVISION	_
DESCRIPTION	Г
CORRECT R-O-W WIDTH	Ī
CHANGE 12" LP GAS INLET TO 16"	lo
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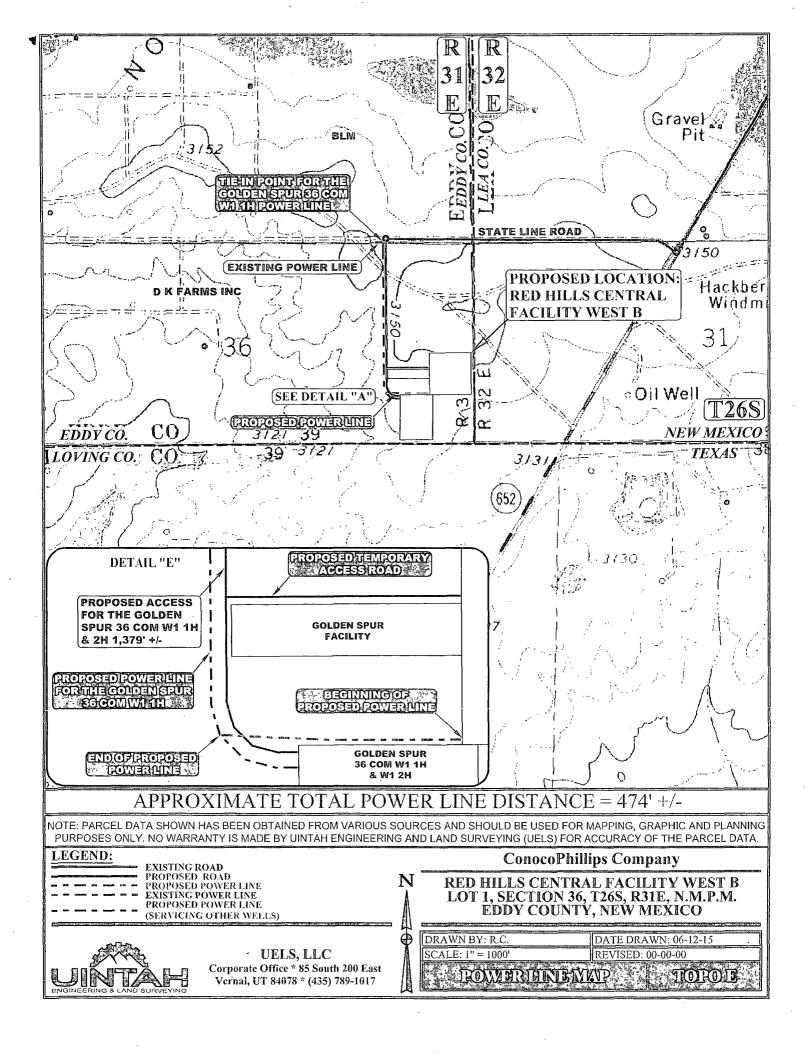
	DATE	<u> </u>
	06-30-15	B.D.F
TO 16"	07-28-15	8.D.F

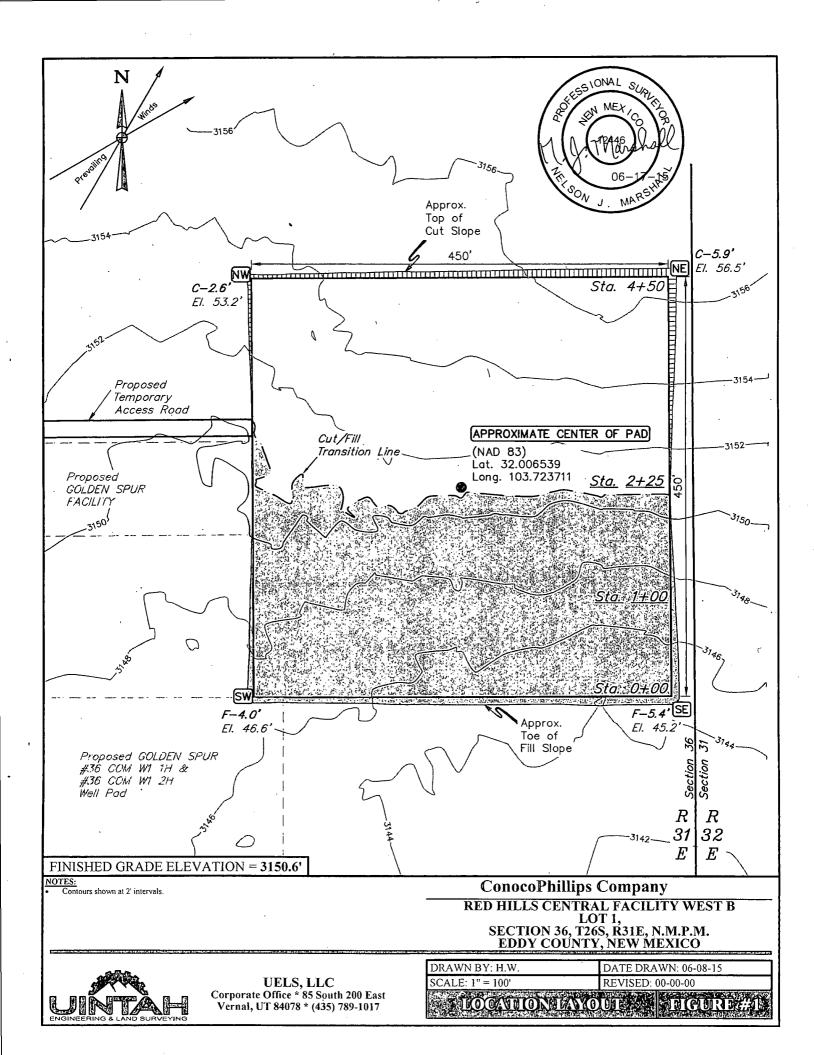


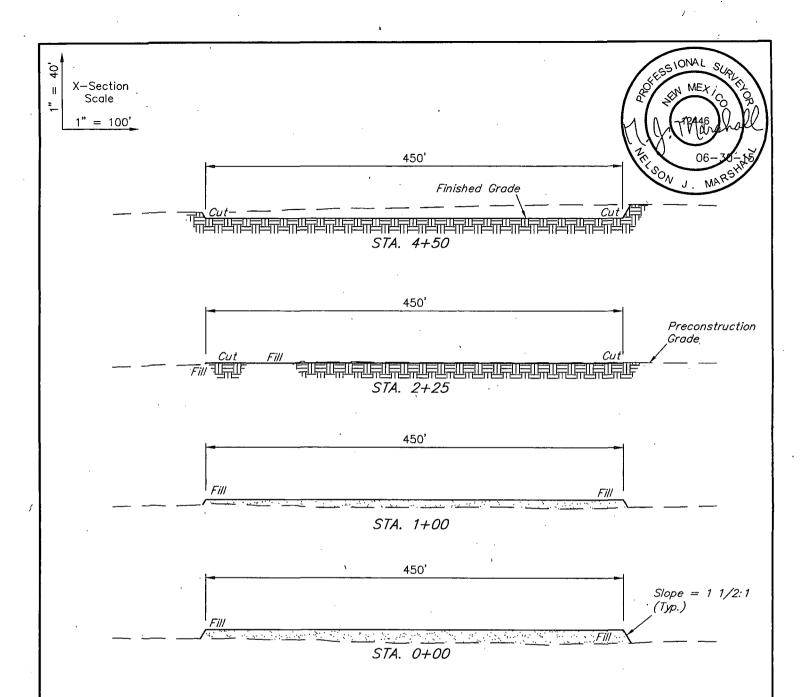


SCALE: N/A	LOCA
DRAWING# N/A	SECTIONS T26S, R311
SHEET: 1 OF 1	EDDY COUNT









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.

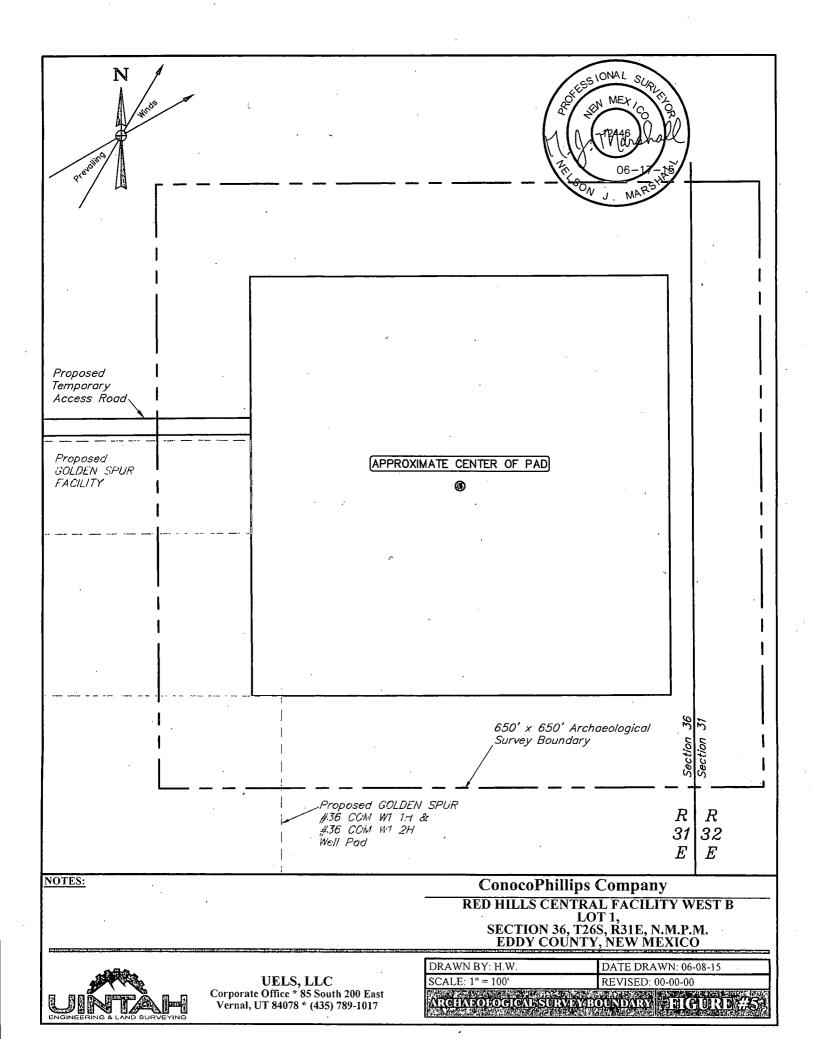
ConocoPhillips Company

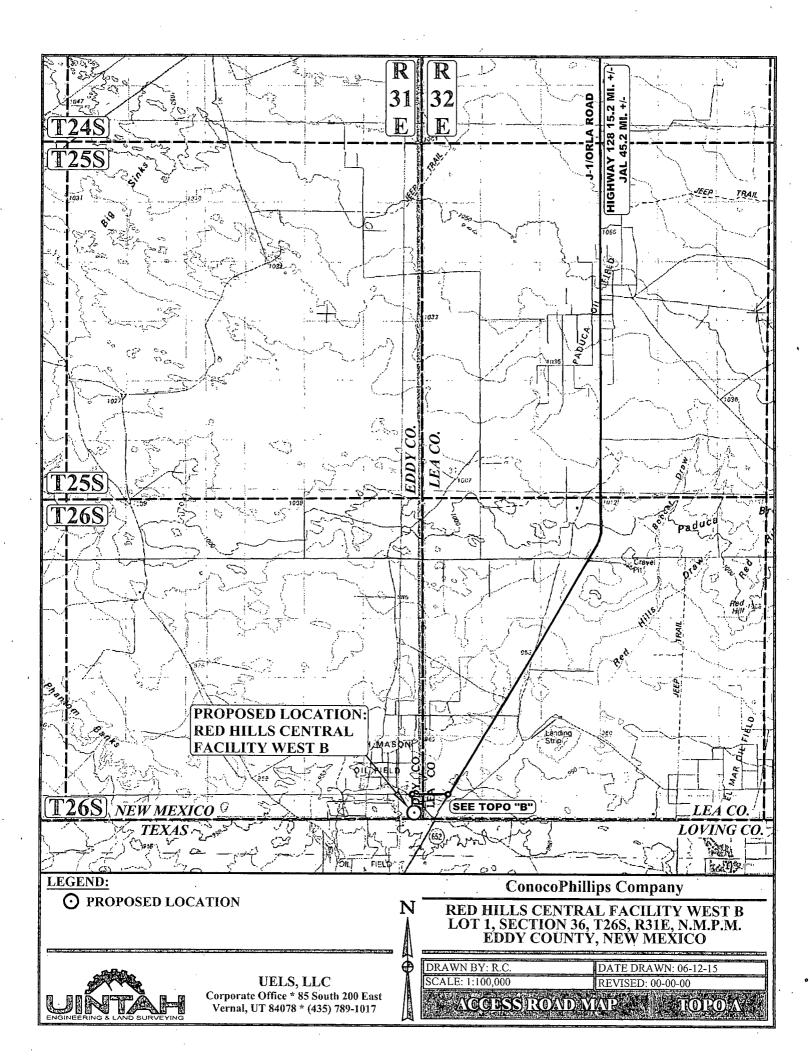
RED HILLS CENTRAL FACILITY WEST B LOT 1, SECTION 36, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO

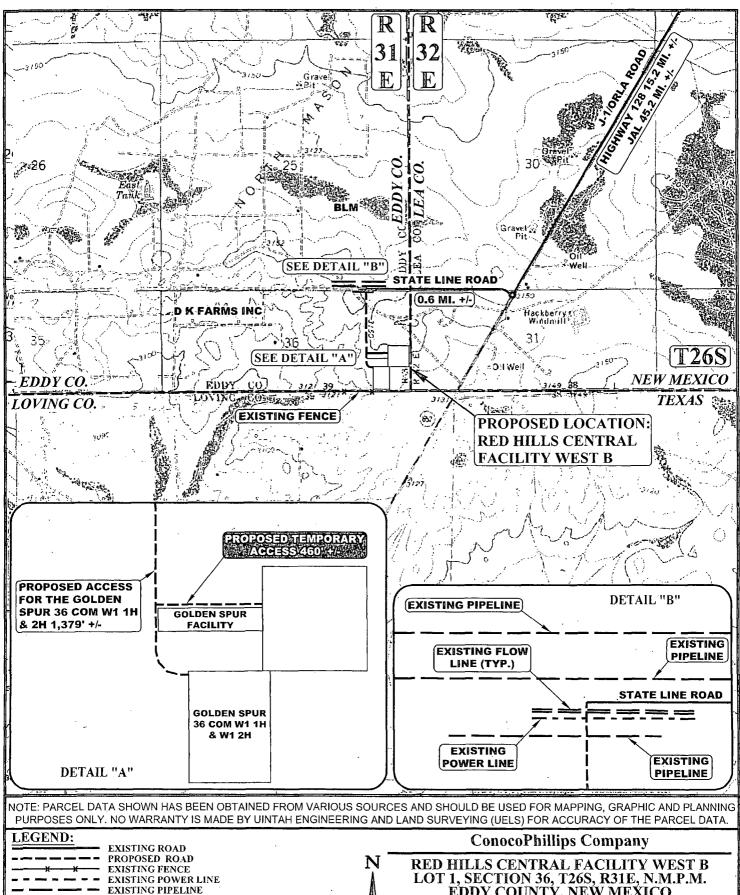


UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

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





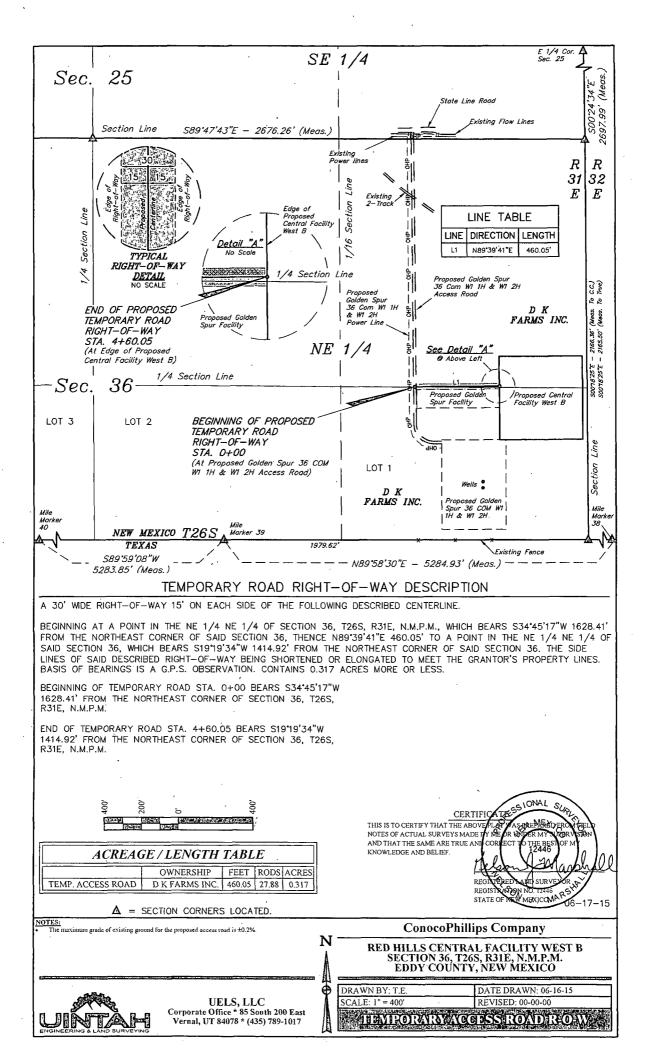


UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

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

DATE DRAWN: 06-12-15 DRAWN BY: R.C SCALE: 1" = 2000'

REVISED: 00-00-00 ACCESS ROAD WAR



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** 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

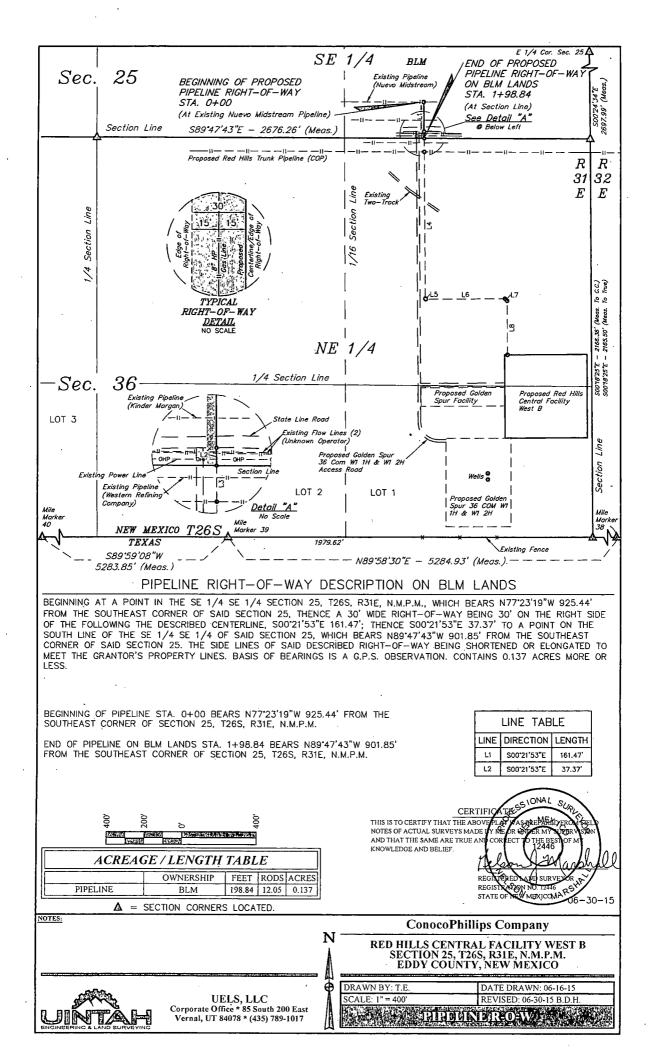
RED HILLS CENTRAL FACILITY WEST B LOT 1, SECTION 36, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO

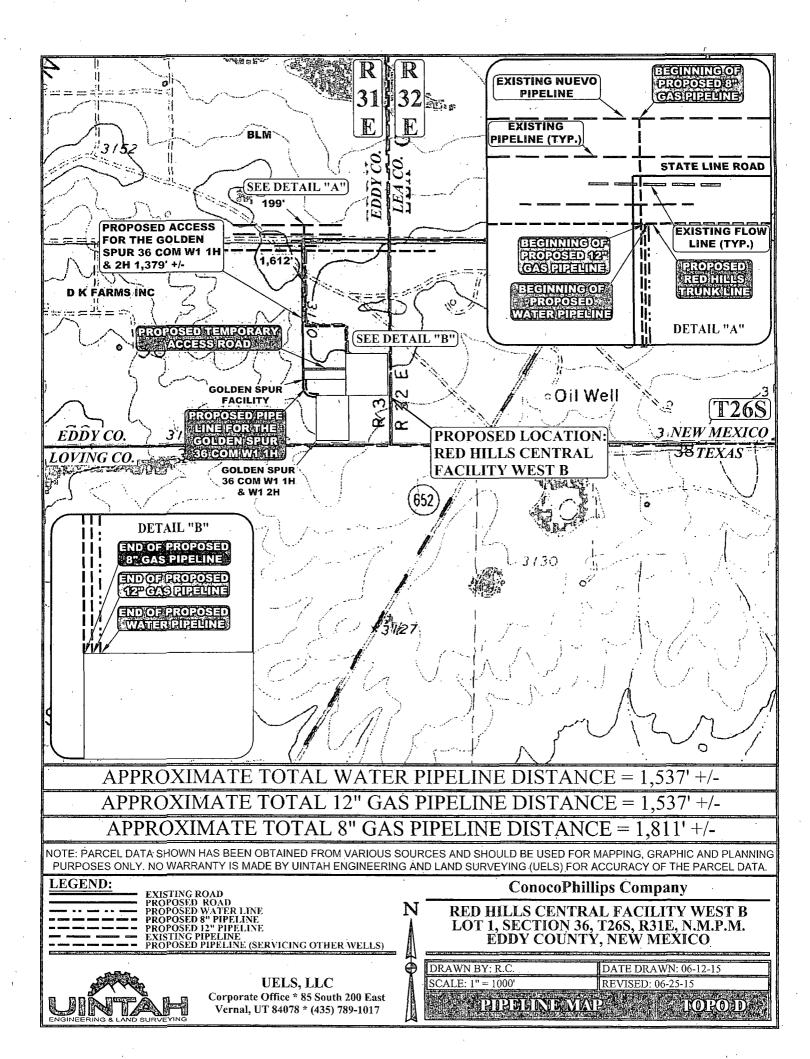


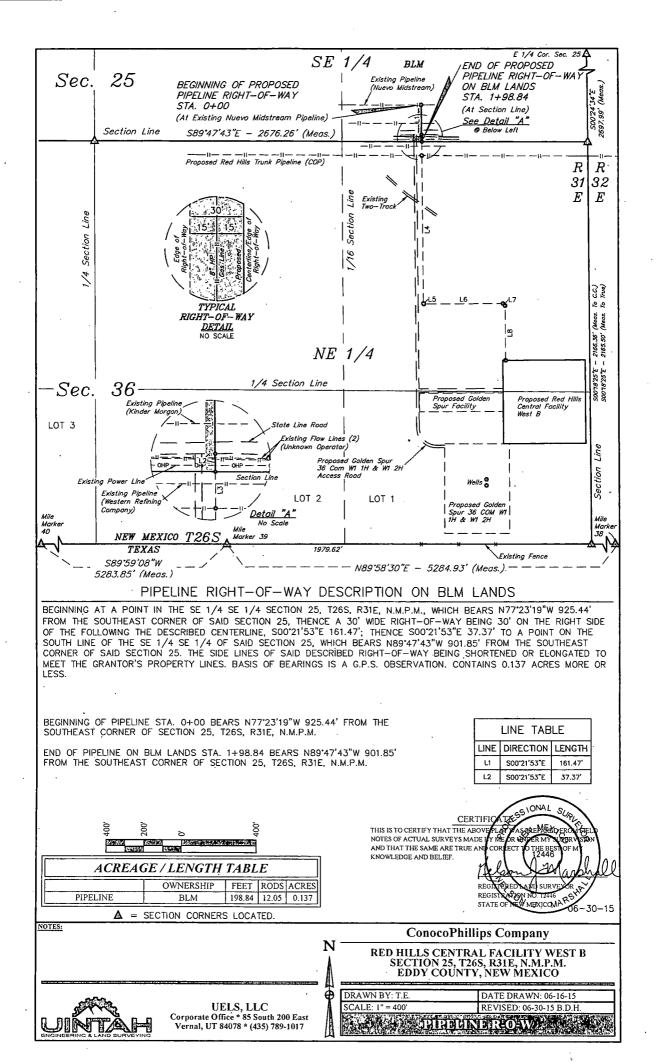
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

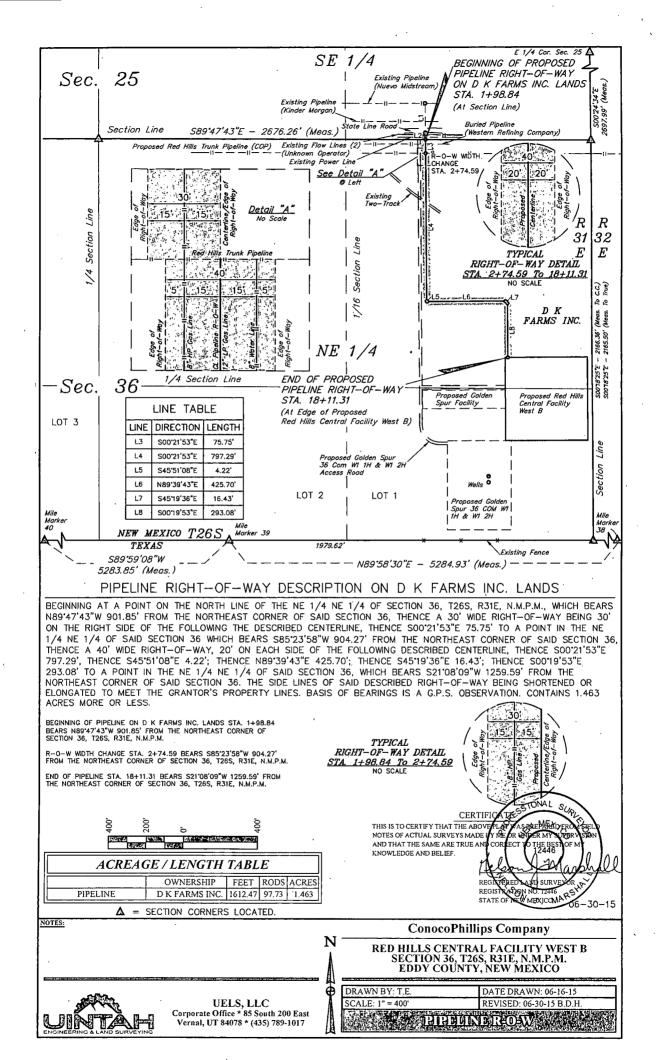
DRAWN BY: R.C. | DATE DRAWN: 06-12-15 | REVISED: 00-00-00

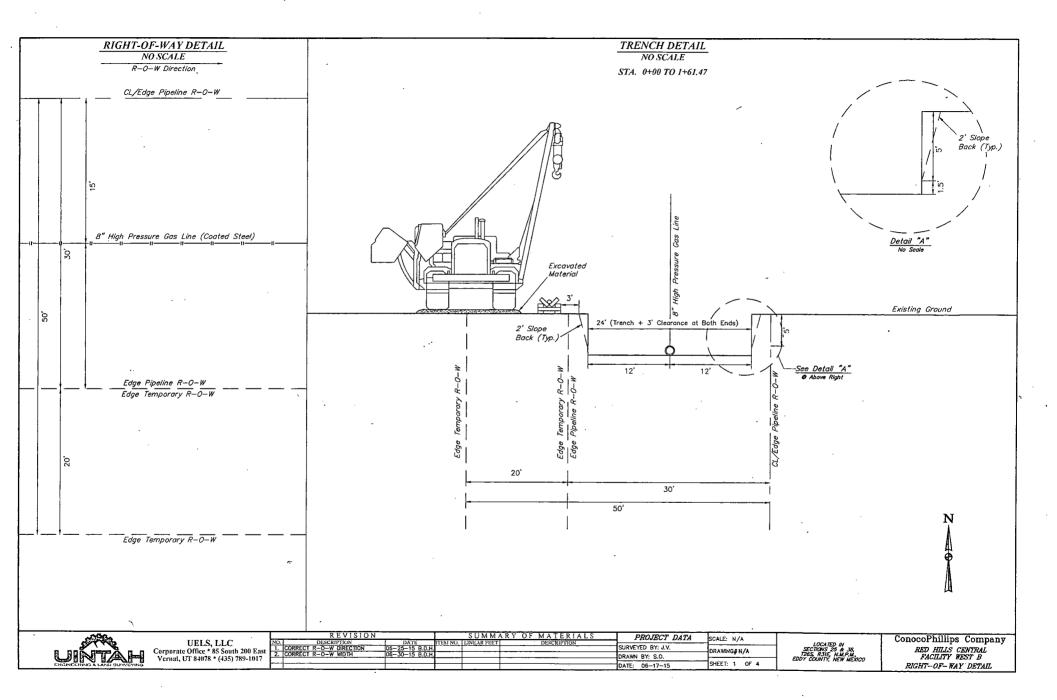
ROADDESCRIBION

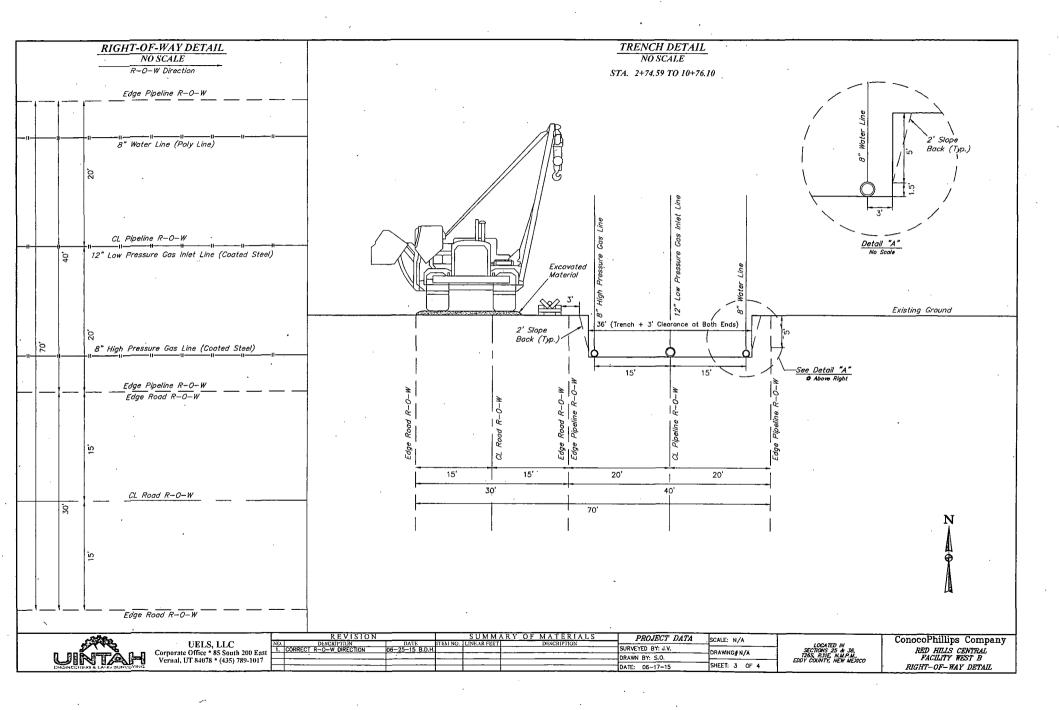


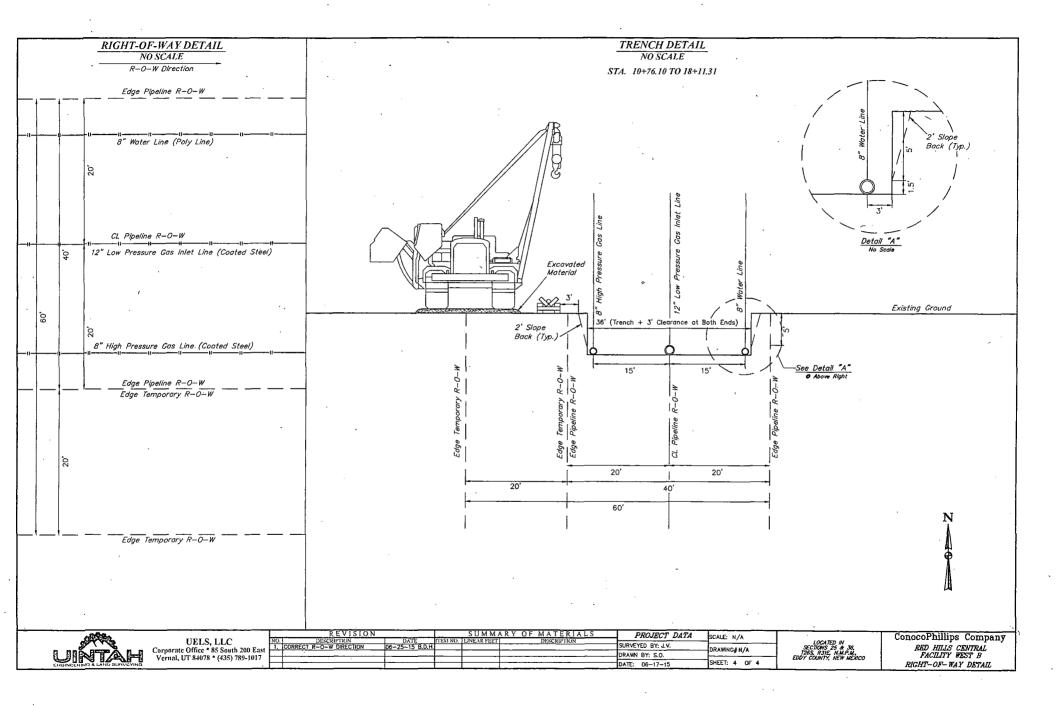






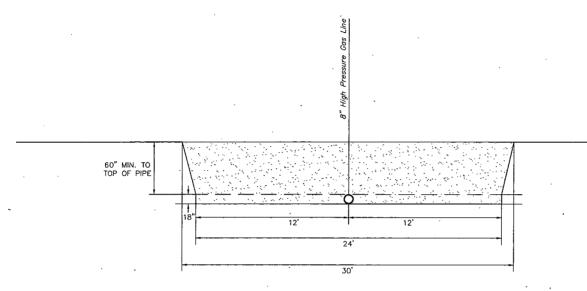






STA. 0+00 TO 2+74.59

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

SCALE: N/A DRAWING#N/A

5' CLEARENCE AT BOTH ENDS



UELS	, LLC		
Corporate Office *			
Vernal, UT 84078	* (435)	789-1	017

DESCRIPTION DATE ITEM NO LINEAR FEET DESCRIPTION CORRECT R-O-W WIDTH 06-30-15 B.D.H. DESCRIPTION SURVEYED BY: J.U. DRAWN BY: S.O. DATE: CE-17-15	REVISION	SUMMARY OF MATERIALS	PROJECT DATA
DRAWN BY: S.O.		TEM NO. LINEAR FEET DESCRIPTION	SURVEYED BY: J.V.
1			DRAWN BY: S.O.
		1 1	DATE: 06-17-15



ConocoPhillips Company

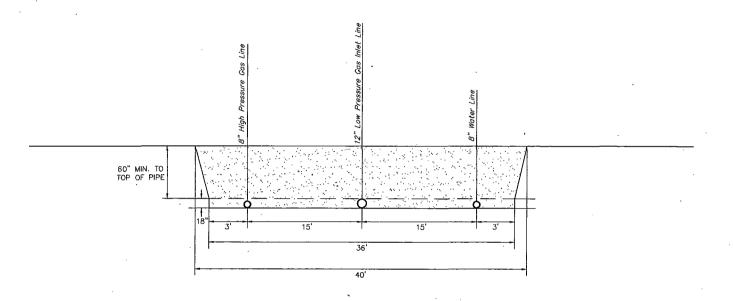
RED HILLS CENTRAL

FACILITY WEST B

BACKFILL DIAGRAM

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

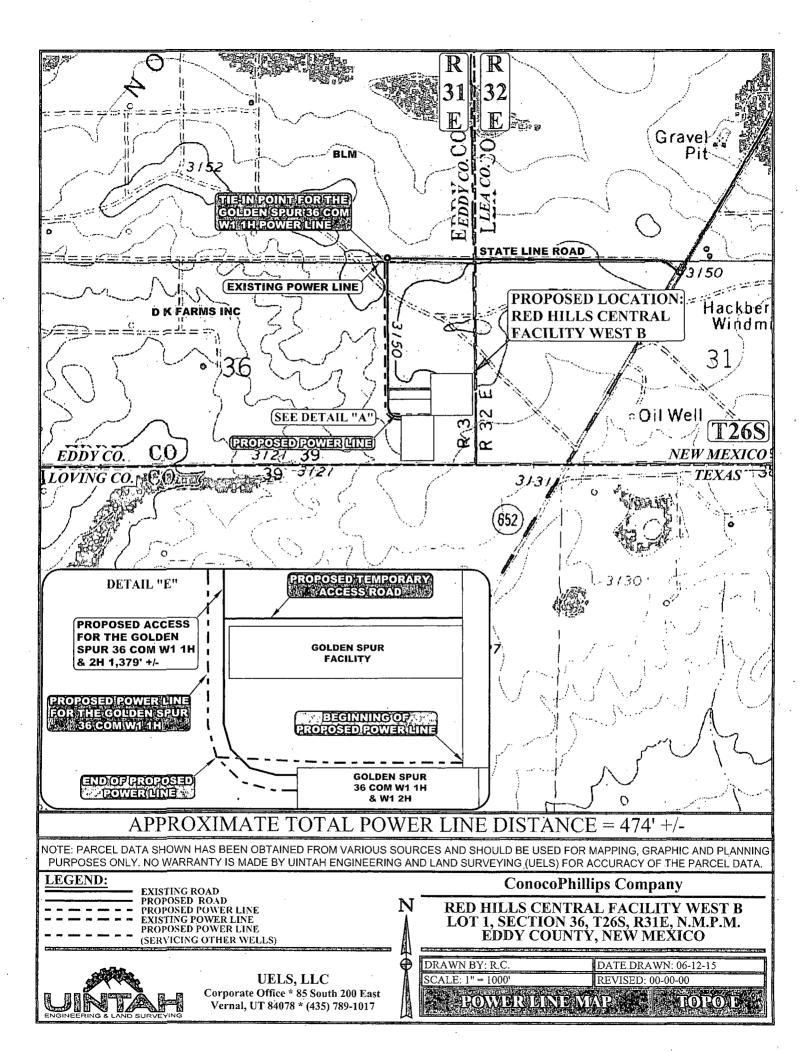
SOFT FILL DIRT OR SAND WITH NO ROCKS OR SOLID PARTICLES GREATER THAN 1" IN CIRCUMFERENCE

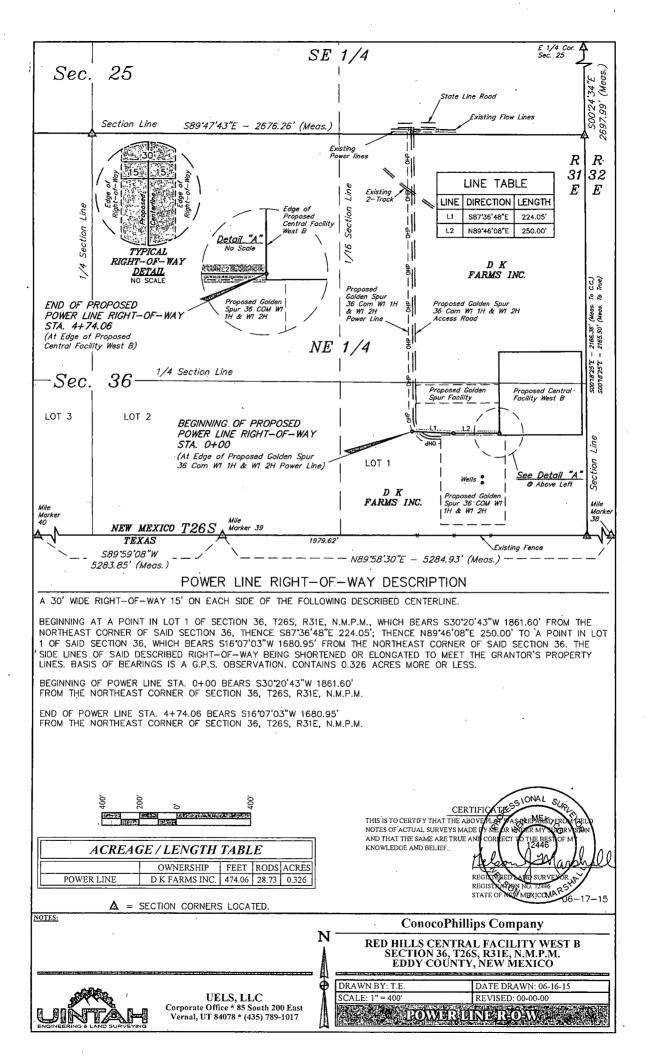
5' CLEARENCE AT BOTH ENDS

15' CLEARENCE BETWEEN EACH PIPE



			REVISIO	1	1	SUMMA	RY OF MATERIALS	PROJECT DATA	SCALE: N/A		ConocoPhillips Company
ULLO, LLC	NO.	ODDECT.	DESCRIPTION R=O=W WOTH	DATE DATE	ITEM NO.	LINEAR FEET	DESCRIPTION	SURVEYED BY: J.V.		LOCATED IN	
rporate Office * 85 South 200 East	1.	URRECI	K-U-W WUIN	00-30-13 8.0.				DRAWN BY: S.O.	DRAWNG#N/A	SECTIONS 25 & 36, T26S, R31E, N.M.P.M.	RED HILLS CENTRAL, FACILITY WEST B
ernal, UT 84078 * (435) 789-1017									SHEET: 1 OF 1	EDDY COUNTY, NEW MEXICO	
								DATE: 06-17-15	ISPECT: 1 OF 1	l	BACKFILL DIAGRAM





ConocoPhillips, Golden Spur 36 COM W1 2H

1. Geologic Formations

TVD of target	11,605	Pilot hole depth	N/A
MD at TD:	18,834	Deepest expected fresh water:	300

Basin

Formation ()	Depth (TVD)	Water/Mineral Bearing/ Target Zone?	Hazards
Quaternary Fill	Surface	Water	
Base of Fresh Water	300	W-4	
	<u> </u>		
Rustler	920	Water	
Top of Salt / Salado	1,355	, Salt	
Castile	2,300	Salt	
Delaware Top / Base	4,165	Oil/Gas	Loss of Circulation
Salt			
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.

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?	
	react:
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. Cem	enting P	rogram				
Casing	#Sks	wis.		H_20	500#	Slurry Description
		, I B/, ;			∉g.Comp.s s	
		gal	sack	TO THE	Strength	
		推定性。	THE AREA		(hours)	
Surf.	300	13.7	1.63	8.50	7	Lead: Class C + 1.5% Bentonite + 1.0% CaCl2 +
						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.
	2000	11.5	2.74	15.25	15	Lead: Class C + 10.0% Bentonite + 0.2% Anti-Foam
Conting	1.3					+ 5lb/sk LCM + 0.25% Dispersant + 0.25% Retarder.
ency	350	13.5	1.35	6.34	5.	Tail: Class C + 0.2% Anti-Foam + 0.25% Retarder +
Inter. 1	,		<u> </u>			0.5% Éxtender.
		·	٠	·		CP Tool: NO
	9-5/	/8" Casing	g will be s	et 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%
			<u> </u>			Expanding Agent
		т				4,500' (OPTIONAL)
	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.
Prod.	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 +
		<u> </u>	L			0.030 gal/sk Anti-Foam.
					DV/EC	CP 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.

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

Hole Size	Casing + From	Interval To	Gsg., Size		Grade	Conn.	SF. Collapse	SF Burst	SF.Dry Tension
17.50"	0	990 1040	13.375"	54.5	J55	BTC	2.36	5.70	15.8
12.25" x 9.875"	0	4,165 x 11,879	7.625"	29.7	P110	ВТС	**1.7 COP Collapse Design S.F.	1.46	2.7,2
6.75"	0	18,834 (11605 TVD)	5.0"	18	P110	TXPBTC	1.59	1.65	2.78
				BLM N	Minimum S	afety 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.

	Maria Di Internazione C	Interval Est	to the state of th	Water the Original	Grade	€onn:	ALL LANGUAGE TO SERVICE	SF. Burst	SF SF Tension
12.25"	0	4,165	9.625"	40.0	L80	ВТС	2.53 .	1.36	5.50
8.75"	0	11,879	7.625"	29.7	P110	TenW523	**1.7 COP Collapse Design S.F.	1.46	2.72

	YOUNG
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	Y
justification (loading assumptions, casing design criteria).	
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	
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.	
	医静脉 亞牌
Is well located in SOPA but not in R-111-P?	X V
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	₩ Al
500' into previous casing?	

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

3. Ceme	<u> </u>	10grain				
Casing	#Sks	Wind	Yid	H200	500#	Company Description of the Property Company
		316/31	r fi3/。	igal/sk	Comp.	
機能学が制		gal	10 - 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Strength	
					(hours)	
Surf.	300	13.7	1.63	8.50	7	Lead: Class C + 1.5% Bentonite + 1.0% CaCl2 +
						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.
	2000	11.5	2.74	15.25	15	Lead: Class C + 10.0% Bentonite + 0.2% Anti-Foam
Conting				3.4	5,	+ 5lb/sk LCM + 0.25% Dispersant + 0.25% Retarder.
ency	350	13.5	1.35	6.34	5.	Tail: Class C + 0.2% Anti-Foam + 0.25% Retarder +
Inter. I						0.5% Extender.
			e vojet i jedina i j Postava i jedina i j		DV/EC	'D T' - 1 X (A
	9-5/	8" Casing	, will be s	et 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%
L						Dispersant + 5 lbs/sk LCM + 4% Expanding Agent.
1	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
1						0.25 lb/sk Lost Circ Control + 5 lbs/sk LCM + 3.0%
1						Expanding Agent
						4,500' (OPTIONAL)
	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.
Prod.	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/EC	CP Tool NO'

SEE COA SEE

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.

Casing Strings	TOC	%Excess #U.F. F. A.F.
Surface	0,	100%
Contingency Intermediate 1	0'	100% - 130%
Intermediate 2	0'	50%
Production	11,379'	30% - 35%

Include Pilot Hole Cementing specs: NO PILOT HOLE.

Pilot hole depth N/A

KOP

•	- A
2 AA	COA
see	ι
-Ju	○ · ·

THE WAY	Plug Bottom	Excess	No. Sacks	Vt. Ib/gal	Yld=;; ft3/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.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Ty.	pe		Tested to:
			Ann	ular	X	50% of working pressure
12-1/4"		5M	Blind	Ram	X	
X	13-5/8"		Pipe Ram		X	5M
9-7/8"			Double Ram		X	SIVI
,			Other*			
			Ann	ular	X	50% testing pressure
		10M	Blind	Ram	X	
6-3/4"	13-5/8"		Pipe Ram		X	10M
	·		Double	Ram	X	IOWI
			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.

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.								
	A variance is requested for the use of a flexible choke line from the BOP to Choke								
Y	Manifold. See attached for specs and hydrostatic test chart.								
L	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								
ļ	30 days. If any seal subject to test pressure is broken the system must be tested.								
	Provide description here								
	See attached schematic.								

5. Mud Program

	1 44 111				
From	pthis is the Tolden	Type.	Weight (ppg)	Viscosity	WaterLoss
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	11,879	Brine or OBM	8.9-10.5	28-40	≤5
11,879	18,834	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	PVT/Pason/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

Logg	ing Coring and Cesting
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.

_			
	Addi	tional logs, planned	Interval - 19 19 19 19 19 19 19 19 19 19 19 19 19
ſ		Resistivity	
		Density	
ſ		CBL	
	X	Mud log	
		PEX	

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 H2S is present

X H2S 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 preset 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 nippled 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 nippled 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.

Attachments:

Attachment#1: Directional Plan.

Attachment#2: Casing & Cement Wellbore Schematic.

Attachment#3: Attachment #4: Wellhead Schematics Choke & BOPE Schematics. Attachment #5: Special (Premium) Connections

Attachment #6: Flex Hose Documentation. Spudder Rig Layout

Attachment #7:



ConocoPhillips MCBU
Permian Delaware Hz New Mexico
GOLDEN SPUR 36 COM W1 2H - PS
Golden Spur 36 COM W1 2H
Original Hole

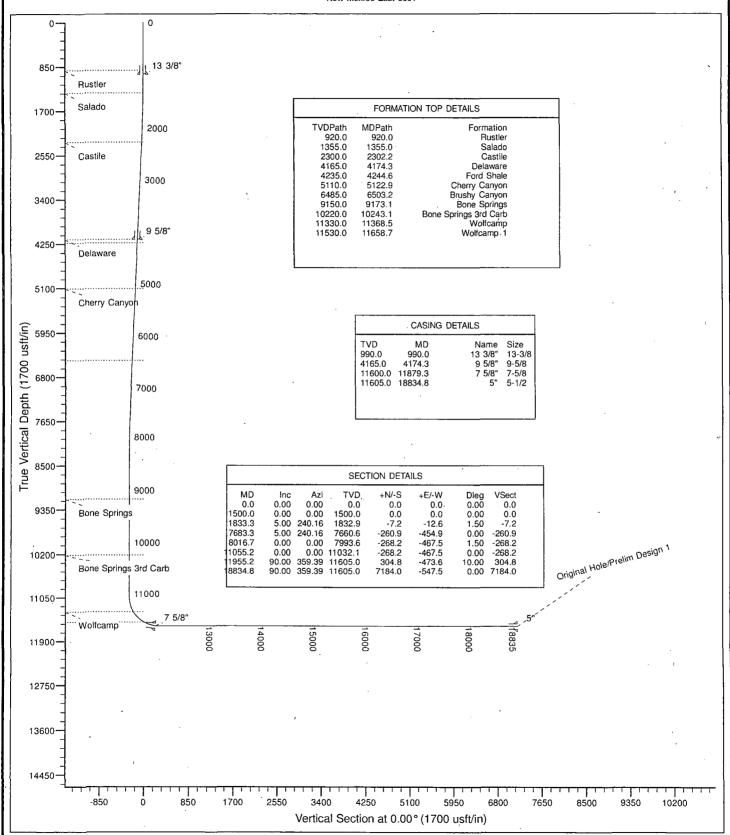
Original Hole
Plan: Prelim Design 1 (Golden Spur 36 COM W1 2H/Original Hole)
WELL @ 3171.0usft (Original Well Elev)
US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)

D 1927 (NADCON CON Clarke 1866 New Mexico East 3001



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

> Magnetic Field Strength: 48019.4snT Dip Angle: 59.85° Date: 5/13/2015 Model: BGGM/2014



ConocoPhillips MCBU

Permian Delaware Hz New Mexico GOLDEN SPUR 36 COM W1 2H - PS Golden Spur 36 COM W1 2H

Original Hole

Plan: Prelim Design 1

Standard Planning Report

14 May, 2015

Planning Report

Database **EDM Central Planning** Company: ConocoPhillips MCBU

Project: Permian Delaware Hz New Mexico GOLDEN SPUR 36 COM W1 2H - PS Golden Spur 36 COM W1 2H

Wellbore: Original Hole Prelim Design 1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site GOLDEN SPUR 36 COM W1 2H - PS WELL @ 3171.0usft (Original Well Elev) WELL @ 3171.0usft (Original Well Elev)

Grid

Minimum Curvature

Project:

Map System:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Geo Datum: Map Zone:

New Mexico East 3001

System Datum:

Mean Sea Level

Site GOLDEN SPUR 36 COM W1 2H - PS, Section 36 and 25

0.0 usft

Site Position:

Northing:

364,604.44 usft

32° 0' 3.417 N

From:

Мар

Easting:

688,807.80 usft

Longitude:

Position Uncertainty:

13-3/16'

103° 43' 27.351 W

Slot Radius:

Grid Convergence:

0.32

Golden Spur 36 COM W1 2H, Exploration - Horizontal

Well Position

+E/-W

0.0 usft

Northing: Easting:

364,604.44 usft

Latitude:

32° 0' 3.417 N

Position Uncertainty

0.0 usft 0.0 usft

Wellhead Elevation:

688,807.80 usft usft

Longitude:

103° 43' 27.351 W

0.0

Ground Level:

0.00

3,146.0 usft

Wellbore Original Hole Declination Magnetics. Field Strength BGGM2014 5/13/2015 7.34 59.85 48,019

Design	Prelim D	esign 1 			ener half de se estado de estado estado estado estado en estado en entre en estado en estado en estado en esta La estado en entre e	menta, and a second state of
Version:	1	Phase:	PROTOTYPE	Tie On Depth:	0.0	
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Plan Sections	The state of the s	14.0 mg 1.0 mg 1	e zone "mir yer tyrju pate" wilden beditter.	Tris Prid. refer folk, received, astrony Prim Fran	or's deady refer I man bear being in an Cell of Selve as		eri Miliya di nadi balan Kabupaga pajatya yangka	gilling grown have finden proces is true from from the well-offer as	nan fir on fulfict diet Lufolyding (1932) is Despitydae	direction from the adjust social for a posternal field the absorption
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8,016.7	0.00	0.00	7,993.6	-268.2	-467.5	1.50	-1.50	0.00	180.00	
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Planning Report

EDM Central Planning ConocoPhillips MCBU

Project:
Site:
Well:
Wellbore:
Design: Permian Delaware Hz New Mexico GOLDEN SPUR 36 COM W1 2H - PS

Golden Spur 36 COM W1 2H

Original Hole Prelim Design 1

Local Co-ordinate Reference (1 TVD) Reference (1 MD) Reference (1 North Reference (1)

Survey Calculation Method:

Site GOLDEN SPUR 36 COM W1 2H - PS

WELL @ 3171.0usft (Original Well Elev) WELL @ 3171.0usft (Original Well Elev)

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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			******		0.0	0.0	0.00	2.55	0.00
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	1.50	240.16	1,600.0	-0.7	-1.1	-0.7	1.50	1.50	0.00
			•						
1,700.0	3.00	240.16	1,699.9	-2.6	-4.5	-2.6	1.50	1.50	0.00
1,800.0	4.50	240.16	1,799.7	-5.9	-10.2	-5.9	1.50	1.50	0.00
1,833.3	5.00	240.16	1,832.9	-7.2	-12.6	-7.2	1.50	1.50	0.00
1,900.0	5.00	240.16	1,899.3	-10.1	-17.6	-10.1	0.00	0.00	0.00
2,000.0	5.00	240.16	1,998.9	-14.5	-25.2				
2,000.0	3.00	240.10	1,990.9	-14.5	-25.2	-14.5	0.00	0.00	0.00
2,100.0	5.00	240.16	2,098.6	-18.8	-32.8	-18.8	0.00	0.00	0.00
2,200.0	5.00	240.16	2,198.2	-23.1	-40.3	-23.1	0.00	0.00	0.00
2,300.0	5.00	240.16	2,297.8						
1				-27.5	-47.9	-27.5	0.00	0.00	0.00
2,302.2	5.00	240.16	2,300.0	-27.6	-48.1	-27.6	0.00	0.00	0.00
Castile									
2,400.0	5.00	240.16	2,397.4	-31.8	-55.4	-31.8	0.00	0.00	0.00
			•						0.09
2,500.0	5.00	240.16	2,497.0	-36.1	-63.0	-36.1	0.00	0.00	0.00
2,600.0	5.00	240.16	2,596.7	-40.5	-70.6	-40.5	0.00	0.00	0.00
2,700.0	5.00	240.16	2,696.3	-44.8	-78.1	-44.8	0.00	0.00	0.00
2,800.0	5.00	240.16	2,795.9	-49.2	-85.7	-49.2	0.00	0.00	0.00
2,900.0	, 5.00								
2,900.0	, 3.00	240.16	2,895.5	-53.5	-93.2	-53.5	0.00	0.00	0.00
3,000.0	5.00	240.16	2,995.1	-57.8	-100.8	-57.8	0.00	0.00	0.00
3,100.0	5.00	240.16	3,094.8	-62.2	-108.4	-62.2	0.00	0.00	0.00
3,200.0	5.00	240.16	3,194.4	-66.5					
· ·					-115.9	-66.5	0.00	0.00	0.00
3,300.0	5.00	240.16	3,294.0	-70.8	-123.5	-70.8	0.00	0.00	0.00
3,400.0	5.00	240.16	3,393.6	-75.2	-131.0	-75.2	0.00	0.00	0.00
0.500.0	F 00	0.40.40	0.400.0	70.5	4000				
3,500.0	5.00	240.16	3,493.2	-79.5	-138.6	-79.5	0.00	0.00	0.00
3,600.0	5.00	240.16	3,592.9	-83.8	-146.2	-83.8	0.00	0.00	0.00
3,700.0	5.00	240.16	3,692.5	-88.2	-153.7	-88.2	0.00	0.00	0.00
3,800.0	5.00	240.16	3,792.1	-92.5	-161.3	-92.5	0.00	0.00	0.00
3,900.0	5.00								
3,800.0	3.00	240.16	3,891.7	-96.9	-168.9	-96.9	0.00	0.00	0.00
4,000.0	5.00	240.16	3,991.3	-101.2	-176.4	-101.2	0.00	0.00	0.00
4,100.0	5.00	240.16	4,091.0	-105.5	-184.0	-105.5	0.00	0.00	0.00
1									
4,174.3	5.00	240.16	4,165.0	-108,8 ,	-189.6	-108.8	0.00	0.00	0.00
Delaware - 9 5/8	<u>"</u>						•		
					·				

Planning Report

Database:

EDM Central Planning ConocoPhillips MCBU

Permian Delaware Hz New Mexico GOLDEN SPUR 36 COM W1 2H - PS Golden Spur 36 COM W1 2H

Wellbore Original Hole Prelim Design 1 Local Co-ordinate Reference: TVD Reference: MD Reference: MD Reference: North Reference: Survey Calculation Method:

Site GOLDEN SPUR 36 COM W1 2H - PS WELL @ 3171.0usft (Original Well Elev) WELL @ 3171.0usft (Original Well Elev)

Minimum Curvature

Rlanned Survey

Measured
Depth inclination A.
(usft) na nimika umperianne reperangan ketanberangan memperangan ang mengangan mengantan ke
 Vertical
 Dogleg
 Build
 Turn

 +N/S
 +E/W
 Section
 Rate
 Rate
 Rate

 (usft)
 (usft)
 (Y/100usft)
 (Y/100usft)
 (Y/100usft)
 Vertical 👸 Azimuth Depth Depth (usft) 4,200.0 5.00 240.16 4,190.6 -109 9 -191.5 -109.9 0.00 0.00 0.00 5.00 240.16 0.00 0.00 0.00 4 244 6 4,235.0 -111.8-194.9-111.8Ford Shale 4,300.0 0.00 0.00 0.00 5.00 240.16 4.290.2 -199.1 -114.2-114.24,400.0 5.00 240.16 4.389.8 -118.5 -206.7 -118.5 0.00 0.00 0.00 240.16 4,489.4 -122.9 0.00 0.00 0.00 4.500.0 5.00 -122.9-214.2 5.00 240.16 4,589.0 -127.2 -127.2 0.00 0.00 0.00 4.600.0 -221.8 4,700.0 5.00 240.16 4.688.7 -131.5 -229.3-131.5 0.00 0.00 0.00 4,788.3 4 800 0 5.00 240.16 -135.9 -236.9 -135.9 0.00 0.000.00 4,900.0 5.00 240.16 4,887.9 -140.2-244.5 -140.2 0.00 0.00 0,00 5,000.0 5.00 240.16 4,987.5 -144.6 -252 0 -144.6 0.00 0.00 0.00 5 087 1 5.00 240 16 -148 9 -259 6 -148 9 0.00 0.00 0.00 5.100.0 5,122.9 5.00 240.16 5,110.0 -149.9 -261.3 -149.9 0.00 0.00 0.00 Cherry Canyon 5,200.0 5.00 240.16 5,186.8 -153.2 -267.1-153.2 0.00 0.00 0.00 5,286.4 0.00 5,300.0 5.00 240.16 -157.6 -274.7-157.6 0.00 0.00 5.00 240.16 5 386 0 -161.9 -282.3 -161.9 0.00 0.00 0.00 5 400 0 5,500.0 5.00 240.16 5.485.6 -166.2 -289.8-166.2 0.00 0.00 0.00 240.16 5,585.2 -170.6 -170.6 0.00 5,600.0 5.00 -297.4 0.00 0.00 5,700.0 5.00 240.16 5,684.9 -174.9 -304.9 -174.9 0.00 0.00 0.00 5,800.0 5.00 240.16 5,784.5 -179,3 -312.5 -179.3 0.00 0.00 0.00 5.900.0 5.00 240.16 5 884 1 -183 6 -183 6 0.000.00 0.00 ± 320.1 6,000.0 5.00 240.16 5,983.7 -187.9 -327.6 -187.9 0.00 0.00 0.00 6,100.0 5.00 240.16 6,083.3 -192.3 -335.2 -192.3 0.00 0.00 0.00 240.16 6,200.0 5.00 6,183.0 -196.6 -342.7 -196.6 0.00 0.00 0.00 6.300.0 5.00 240.16 6.282.6 -200.9 -350 3 -200.9 0.00 0.00 0.00 6,400.0 5.00 240 16 6.382.2 -205.3 -357.9 -205.3 0.00 0.00 0.00 240.16 6,500.0 5.00 6.481.8 -209.6 -365.4 -209.6 0:00 0.00 0.00 5 00 240.16 6 485 0 -209.7 -365.7 -209.7 0.00 0.00 0.00 6 503 2 **Brushy Canyon** 5.00 0.00 6 600 0 240 16 6 581 4 -213.9 -373.0 -213 9 0.00 0.00 6,700.0 5.00 240 16 6.681.1 -218.3 -380.5-218.3 0.00 0.00 0.00 6.800.0 5.00 240.16 6,780.7 -222.6 -388 1 -222.6 0.00 0.00 0.00 6,900.0 5.00 240.16 6.880.3 -227.0 -395.7 -227.0 0.00 0.00 0.00 7.000.0 5.00 240.16 6.979.9 -231.3 -403.2 0.00 -231.30.00 0.00 7,100.0 5.00 240.16 7,079.5 -235.6 -410.8 -235.6 0.00 0.00 0.00 7,200.0 5.00 240.16 7.179.2 -240.0 -418.3 -240.0 0.00 0.00 0.00 7,300.0 5.00 240.16 7,278,8 -244.3 -425.9 -244.3 0.00 0.00 0.00 7,400.0 5.00 240.16 7,378.4 -248.6 -433.5 -248.6 0.00 0.00 0.00 240.16 7,478.0 -253.0 7.500.0 5.00 -441.0 -253.0 0.00 0.00 0.00 7,600.0 5.00 240.16 7,577.6 -257.3 -448.6 -257.3 0.00 0.00 0.00 7,683.3 5.00 240 16 7.660.6 -260.9 0.00 -454.9-260.90.00 0.00 7,700.0 4.75 240.16 7,677.3 -261.6 -456.1 -261.6 1.50 -1.50 0.00 7,800.0 3.25 240.16 7,777.0 -265.1 -462.2 -265.1 1.50 -1.500.00 7,900.0 1.75 240.16 7,876.9 -267.3-465.9 -267.3 1.50 -1.50 0.00 8 000 0 0.25 240.16 7 976 9 -268 1 . -467.5 -268.1 1.50 -1.50 0.00 8,016.7 0.00 0.00 7,993.6 -268.2 -467.5 -268.2 1.50 -1.500.00 8,100.0 0.00 0.00 8,076.9 -268.2 -467.5 -268.2 0.00 0.00 0.00 0.00 0.00 8,176.9 8,200.0 -268.2-467.5-268.20.00 0.00 0.00 8,300.0 0.00 0.00 8,276.9 -268.2 -467.5 -268.2 0.00 0.00 0.00 8,400.0 0.00 0.00 8,376.9 -268.2 -467.5 -268.2 0.00 0.00 0.00 8,500.0 0.00 0.00 8,476.9 -268.2 -467.5 -268.2 0.00 0.00 0.00 0.00 0.00

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Planning Report

Database: EDM Central Planning
Company: ConocoPhillips MCBU
Project: Permian Delaware Hz I
Site: GOLDEN SPUR 36 CO
Well: Golden Spur 36 COM \
Wellbore: Original Hole
Design: Prelim Design 1 Permian Delaware Hz New Mexico GOLDEN SPUR 36 COM W1.2H - PS Golden Spur 36 COM W1 2H

Prelim Design 1

Local Co-ordinate Reference TVD Reference MD Reference North Reference Normi Reference Survey Calculation Method

Site GOLDEN SPUR 36 COM W1 2H - PS WELL @ 3171 Ousft (Original Well Elev) WELL @ 3171.0usft (Original Well Elev)

WEIGHT BETWEEN	Name and the second	MENSTAL MARKET MARKET MARKET	nani-parameter parameter son	SALITAN INTERNATION IN	ana any and a construction	SENSO DE LO COMPANSO DE PRODUCTO DE P	PERSONAL PROPERTY AND ADDRESS.	EN ORDRIGUELAND DESCRIPTION OF	and the second second second second
Planned Survey	g Diinsenan anauraran	verroncesserversesservisteris	ness e services articleur en e	raninauskinasastuuneerruu	uconar horanas vas	matrices supervised to the superior	enantinimen merretakken	DINGS TERMINA KANDENI PROTESTI	A THE PROPERTY OF THE PROPERTY
Measured			Vertical 7			Vertical(Doglegt ***	Build	Turn
r. ≯v S Depth∘, in	clination 👯	Azimuth	P Depth	*+N/-S	+E/-W	Section :	Rate	Rate	Rate
· · · · · · · · · · · · · · · · · · ·		2 J (e)#457	(usft)	ر (usft)	(usft)	(usft) 🧼 🖫 (°/.100üsft) 🦟 (°/	100usft) 💛 🦠	/100ušft)******
					significant states	A STATE OF THE STA			
8,700.0	0.00	0.00	8,676.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
8,800.0	0.00	0.00	8,776.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
8,900.0	0.00	0.00	8,876.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
9,000.0	0.00	0.00	8,976.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
9,100.0	0.00	0.00	9,076.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
9,173.1	0.00	0.00	9,150.0	-268.2	-467.5	-268.2	0.00	0.00	0.00
Bone Springs			:						•
9,200.0	0.00	0.00	9,176.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
1									
9,300,0	0.00	0.00	9,276.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
9,400.0	0.00	0.00	9,376.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
9,500.0	0.00	0.00	9,476.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
9,600.0	0.00 0.00	0.00 0.00	9,576.9	-268.2 -268.2	-467.5	-268.2	0.00	0.00	0.00
9,700.0	0.00	0.00	9,676.9	-200.2	-467.5	-268.2	0.00	0.00	0.00
9,800.0	0.00	. 0.00	9,776.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
9,900.0	0.00	0.00	9,876.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
10,000.0	0.00	0.00	9,976.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
10,100.0	0.00	0.00	10,076.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
10,200.0	0.00	0.00	10,176.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
10,243.1	0.00	0.00	10,220.0	-268.2	-467.5	-268.2	0.00	0.00	0.00
Bone Springs 3r			,			-			
10,300.0	0.00	0.00	10,276.9	-268.2	-467.5	-268:2	0.00	0.00	0.00
10,400.0	0.00	0.00	10,376.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
10,500.0	0.00	0.00	10,476.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
10,600.0	0.00	0.00	10,576.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
'	0.00	0.00	40.070.0						
10,700.0	0.00	0.00	10,676.9	-268.2	-467.5	-268.2	0.00	0.00	0.00
10,800.0	·0.00 0.00	0.00 0.00	10,776.9 10,876.9	-268.2 -268.2	-467.5	-268.2	0.00	0.00	. 0.00
10,900.0 11,000.0	0.00	0.00	10,876.9	-268.2 `-268.2	-467.5 -467.5	-268.2	0.00	0.00	0.00
11,055.2	0.00	0.00	11,032.1	-268.2 -268.2	-467.5 -467.5	-268.2 -268.2	0.00	0.00 0.00	0.00 0.00
							0.00	0.00	
11,100.0	4.48	359.39	11,076.8	-266.4	-467.5	-266.4	10.00	10.00	0.00
11,200.0	14.48	359.39	11,175.4	-249.9	-467.7	-249.9	10.00	10.00	0.00
11,300.0	24.48	359.39	11,269.5	-216.6	-468.0	-216.6	10.00	10.00	0.00
11,368.5	31.33	359.39	11,330.0	-184.6	-468.4	-184.6	10.00	10.00	Ō.00 ;
Wolfcamp									9
11,400.0	34.48	359,39	11,356.4	-167.5	468.6	-167.5	10.00	10.00	0.00
11,500.0	44.48	359.39°	11,433.5	-104.0	-469.2	-104.0	10.00	10.00	0.00
11,600.0	54.48	359.39	11,498.4	-28.1	-470.1	-28.1	10.00	10.00	0.00
11,658.7	60.35	359.39	11,530.0	21.3	-470.6	21.3	10.00	10.00	0.00
Wolfcamp 1									
11,700.0	64.48	359,39	11,549.1	58.0	-471.0	58.0	10.00	10.00	0.00
11,800.0	74.48	359,39	11,584.1	151.5	-472.0	151.5	10.00	10.00	0.00
11,879.3	82.41	359,39	11,600.0	229.1	-472.8				
1	02.41	558,58	11,000.0	223.1	-4/2.0	. 229.1	10.00	10.00	0.00
7 5/8"	04.40	250.20	11.000.4	040.7	470.0	040 7	40.00	40.00	1 000
11,900.0	84.48	359,39	11,602.4	249.7	-473.0 473.6	249.7	10.00	10.00	1 .0.00
11,955.2	90.00	359.39 359.39	11,605.0	304.8	-473.6 474.1	304.8	10.00	10.00	0.00
12,000.0 12,100.0	90.00 90.00	359.39 359.39	11,605.0 11,605.0	349.6 449.6	-474.1	349.6	0.00	0.00	0.00
					-475.2	449.6	0.00	0.00	0.00
12,200.0	90.00	359.39	11,605.0	549.6	-476.3	549.6	0.00	0.00	0.00
12,300.0	90.00	359.39	11,605.0	649.6	-477.3	649.6	0.00	0.00	0.00
12,400.0	90.00	359.39	11,605.0	749.6	-478.4	749.6	0.00	0.00	0.00
12,500.0	90.00	359,39	11,605.0	849.6	-479.5	849.6	0.00	0.00	0.00
. 12,600.0	90.00	359.39	11,605.0	949.6	-480.6	949.6	0.00	0.00	0.00
12,700.0	90.00	359.39	11,605.0	1,049.6	-481.6	1,049.6	0.00	0.00	0.00
,									

Planning Report

Database: EDM Central Planning Company: ConocoPhillips MCBU

Project: Site: Well Wellbore: Permian Delaware Hz New Mexico GOLDEN SPUR 36 COM W1 2H - PS Golden Spur 36 COM W1 2H

Original Hole

Prelim Design 1 Design.

Localico-ordinate Reference TVD Reference MD Reference North Reference

Survey Calculation Method:

Site GOLDEN SPUR 36 COM W1 2H - PS WELL @ 3171 Ousft (Original Well Elev) WELL @ 3171.0usft (Original Well Elev)

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Planned Survey	تسممتنا والمستعدد والمستعدد	DEPENDING A	مانسان تعاملان المسا	ii chea ai a ai idea n		a of a control of the	142 T. A. S. C	- 3.0°h - 1.0431.00	COLUMN DESCRIPTION OF STREET
Planned Survey	What we will read the work of		eren eren eren eren eren eren eren eren	الماساطات بالمنافظ المادانية	CANAL MARKANISA ALA	THE SHOP STREET	engeruggene erkeret	esteration and	SECRETARIO DESCRIBERADO DE EST.
		May of all	行的理想以它	17717.17.18	(本)開闢(1)	计程度图的 数据是	的別理難。其		经现代线影影 34
Measured			Vertical			'Vertical · · · ·	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
Link Mark (usft)	· · · · · · · · · · · · · · · · · · ·	A TONY TOWN	(usft)	ろんずなかさない おめね	(usft)	which the first and the trick of the	The state of the s	A Maria Control of the Control	/100usft)
220135650444			Free Car	usft)	(usit)		Service of the servic	300	
12,800.0	90.00	359.39	11,605.0	1,149.6	-482.7	1,149.6	0.00	0.00	0.00
12,900.0	90.00	359.39	11,605.0	1,249.5	-483.8	1,249.5	0.00	0.00	0.00
13,000.0	90.00	359.39	11,605.0	1,349.5	-484.8	1,349.5	0.00	(0.00	0.00
13,100.0	90.00	359.39	11,605.0	1,449.5	-485.9	1,449.5	0.00	0.00	, 0.00
,					400.0	1,440.0		0.00	0.00
13,200.0	90.00	359.39	11,605.0	1,549.5	-487.0	1,549.5	0.00	0.00	0.00
13,300.0	90.00	359.39	11,605.0	1,649.5	-488.1	1,649.5	0.00	0.00	0.00
13,400.0	90.00	359.39	11,605.0	1,749.5	-489.1	1,749.5	0.00	0.00	0.00
13,500.0	90.00	359.39	11,605.0	1,849.5	-490.2	1,849.5	0.00	0.00	0.00
13,600.0	90.00	359.39	11,605.0	1,949.5	-491.3	1,949.5	0.00	0.00	0.00
10.700.0	22.22	250.00							
13,700.0	90.00	359.39	11,605.0	2,049.5	-492.4	2,049.5	0.00	0.00	0.00
13,800,0	90.00	359,39	11,605.0	2,149.5	-493.4	2,149.5	0.00	0.00	0.00
13,900.0	90.00	359.39	11,605.0	2,249.5	-494.5	2,249.5	0.00	0.00	0.00
14,000.0	90.00	359.39	11,605.0	2,349.5	-495.6	2,349.5	0.00	• 0.00	0.00
14,100.0	90.00	359.39	11,605.0	2,449.5	-496.7	2,449.5	0.00	0.00	0.00
14,200.0	90.00	359,39	11,605.0	2,549.5	-497.7	2,549.5	0.00	0.00	0.00
14,200.0	90.00	359.39	11,605.0	2,649.5	-497.7 -498.8	2,549.5 2,649.5	0.00	0.00	0.00
14,400.0	90.00	359.39	11,605.0						
				2,749.5	-499.9	2,749.5	0.00	0.00	0.00
14,500.0	90.00	359.39	11,605.0	2,849.5	-500.9	2,849.5	0.00	0.00	0.00
14,600.0	90.00	359.39	11,605.0	2,949.4	-502.0	2,949.4	0.00	0.00	0.00
14,700.0	90.00	359.39	11,605.0	3,049.4	-503.1	3,049.4	0.00	0.00	0.00
14,800.0	90.00	359.39	11,605.0	3,149.4	-504.2	3,149.4	0.00	0.00	0.00
14,900.0	90.00	359.39	11,605.0	3,249.4	-505.2	3,249.4	0.00	0.00	0.00
15,000.0	90.00	359.39	11,605.0	3,349.4	-506.3	3,349.4	0.00	0.00	0.00
15,100.0	90.00	359.39	11,605.0	3,449.4	-507.4	3,449.4	0.00	0.00	0.00
					-507.4	3,443.4	0.00	0.00	0.00
15,200.0	90.00	359.39	11,605.0	3,549.4	-508.5	3,549.4	0.00	0.00	0.00
15,300.0	90.00	359.39	11,605.0	3,649.4	-509.5	3,649.4	0.00	0.00	0.00
15,400.0	90.00	359.39	11,605.0	3,749.4	-510.6	3,749.4	0.00	0.00	0.00
15,500.0	90.00	359.39	11,605.0	3,849.4	<i>-</i> 511.7	3,849.4	0.00	0.00	0.00
15,600.0	90.00	359.39	11,605.0	3,949.4	-512.8	3,949.4	0.00	0.00	0.00
15 700 0	00.00	250.00	44.005.0	4.040.4	540.0				
15,700.0	90.00	359.39	11,605.0	4,049.4	-513.8	4,049.4	0.00	0.00	0.00
15,800.0	90.00	359.39	11,605.0	4,149.4	-514.9	4,149.4	0.00	0.00	0.00
15,900.0	90.00	359.39	11,605.0	4,249.4	-516.0	4,249.4	0.00	0.00	0.00
16,000.0	90.00	359.39	11,605.0	4,349.4	-517.0	4,349.4	0.00	0.00	0.00
16,100.0	90.00	359.39	11,605.0	4,449.4	-518.1	4,449.4	0.00	0.00	0.00
16,200.0	90.00	359.39	11,605.0	4,549.4	-519.2	4,549.4	0.00	0.00	0.00
16,300.0	90.00	359.39	11,605.0	4,649.4	-520.3	4,649.4	0.00	0.00	0.00
16,400.0	90.00	359.39	11,605.0	4,749.3	-521.3	4,749.3	0.00	0.00	0.00
16,500.0	90.00	359.39	11,605.0	4,849.3	-522.4	4,849.3	0.00	0.00	0.00
16,600.0	90.00	359.39	11,605.0	4,949.3	-523.5	4,949.3	0.00	0.00	0.00
· ·						4,545.3	0.00	0.00	0.00
16,700.0	90.00	359.39	11,605.0	5,049.3	-524.6	5,049.3	0.00	0.00	0.00
16,800.0	90.00	359.39	11,605.0	5,149.3	-525.6	5,149.3	0.00	0.00	0.00
16,900.0	90.00	359.39	11,605.0	5,249.3	-526.7	5,249.3	0.00	0.00	0.00
17,000.0	90.00	359.39	11,605.0	5,349.3	-527.8	5,349.3	0.00	0.00	0.00
17,100.0	90.00	359.39	11,605.0	5,449.3	-528.8	5,449.3	0.00	0.00	0.00
_	00.00		•					•	
17,200.0	90.00	359.39	11,605.0	5,549.3	-529.9	5,549.3	0.00	0.00	0.00
17,300.0	90.00	359.39	11,605.0	5,649.3	-531.0	5,649.3	0.00	0.00	0.00
17,400.0	90.00	359.39	11,605.0	5,749.3	-532.1	5,749.3	0.00	0.00	0.00
17,500.0	90.00	359.39	11,605.0	5,849.3	-533.1	5,849.3	0.00	0.00	0.00
17,600.0	90.00	359.39	11,605.0	5,949.3	-534.2	5,949.3	0.00	0.00	0.00
17,700.0	90.00	359.39	11,605.0	6,049.3	-535.3	6,049.3	0.00	0.00	0.00
17,700.0	90.00	359.39 359.39		•			0.00	0.00	0.00
1			11,605.0	6,149.3	-536.4	6,149.3	0.00	0.00	0.00
17,900.0	90.00	359.39	11,605.0	6,249.3	-537.4	6,249.3	0.00	0.00	0.00
18,000.0	90.00	359.39	11,605.0	6,349.3	-538.5	6,349.3	0.00	0.00	0.00
18,100.0	90.00	359.39	11,605.0	6,449.2	-539.6	6,449.2	0.00	0.00	0.00

Planning Report

Database: EDM Central Planning ConocoPhillips MCBU

Project: Site: Well: Permian Delaware Hz New Mexico GOLDEN SPUR 36 COM W1 2H - PS Golden Spur 36 COM W1 2H

Wellbore: C Original Hole Design: Prelim Design 1 Localico-ordinate Reference TVD Reference MD Reference

North Reference

Survey Calculation Method

Site GOLDEN SPUR 36 COM W1 2H - PS WELL @ 3171.0usft (Original Well Elev) WELL @ 3171 Ousft (Original Well Elev)

Grid

Planned	Survey ***	11.472.000	AND THE STATE OF THE STATE OF	and the second second second second	IT THE EVEN TO THE	AN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ALL AND PROPERTY AND A SECOND	CERTIFICATION CONTRACTOR CONTRACT		7.472-1-77-2-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-
	Measured		11,314,313	Vertical :			Vertical 1	1.20 3.50 Sec. 15. 1	Build	Turn
	Depth Inc	clination (Azimuth	Depth	**+N/-S	+E/-W	Section 7	Rate (*). (*/	Rate	Rate (100)
					LUSIO VALLE	(usit)	tusit)	A Party of the Party	A STATE OF	and the same of th
	18,200.0	90.00	359.39	11,605.0	6,549.2	-540.7	6,549.2	0.00	0.00	0.00
	18,300.0	90.00	359.39	11,605.0	6,649.2	-541.7	6,649.2	0.00	0.00	0.00
	18,400.0	90.00	359.39	11,605.0	6,749.2	-542.8	6,749.2	0.00	0.00	0.00
	18,500.0	90.00	359.39	11,605.0	6,849.2	-543.9	6,849.2	0.00	0.00	0.00
	18,600.0	90.00	359.39	11,605.0	6,949.2	-544.9	6,949.2	0.00	0.00	0.00
	18,700.0	90.00	359.39	11,605.0	7,049.2	-546.0	7,049.2	0.00	0.00	0.00
	18,800.0	90.00	359,39	11,605.0	7,149.2	-547.1	7,149.2	0.00	0.00	0.00
	18,834.8	90.00	359.39	11,605.0	7,184.0	-547.5	7,184.0	0.00	0.00	0.00
	5"				,					

Târgets					Manager Land 40, 1, 141 / 141	httemphablitaine D'allockei Hesteranos, at ,	a particula dell'essenza dell'esse ar ticole	AT LES SELECTIONS AND MEDICAL SERVICES SELECTIONS AND ADMINISTRATION OF THE SELECTION OF TH	China Calle and Calledon Calle
1 11 1. O. M. W.	Angle D	الأول المراكب الأوراث المعلمة في	TVD	100	+E/-W	Northing	Easting		
-Shape			(usft)	(usft)	(usft)	(usft)	(ûsft)	- Latitude (Longitude
GS_36_W1_2H_VT - plan misses target cente - Point	0.00 er by 539.1us	0.00 oft at 20.0	20.0 usft MD (20.6	-268.2 [.] D TVD, 0.0 N,	-467.6 0.0 E)	364,336.21	688,340.19	32° 0' 0.788 N	103° 43' 32.799 W
GS_36_W1_2H_BHL - plan hits target center - Point	0.00	0.00	11,605.0	7,184.0	-547.5	371,788.47	688,260.33	32° 1' 14.542 N	103° 43' 33.240 W

	Measured Depth	Vertical Depth			Casing Diameter	Hole
	(usft) 990.0	(usft)	42.2/0"	Name		
	4,174.3	4,165.0	13 3/8" 9 5/8"		13-3/8 9-5/8	17-1/2 12-1/4
,	11,879.3	11,600.0			7-5/8	8-3/4
	18,834.8	11,605.0	5"		5-1/2	6-3/4

Measured	Vertical	nii -
Depth (usft)	Depth (usft)	Dip Direction Weithology (?) (6)
9,173.1	9,150.0	Bone Springs
5,122.9	5,110.0	Cherry Canyon
11,658.7	11,530.0	Wolfcamp 1
920.0	920.0	Rustler
1,355.0	1,355.0	Salado
4,174.3	4,165.0	Delaware
10,243.1	10,220.0	Bone Springs 3rd Carb
4,244.6	4,235.0	Ford Shale
6,503.2	6,485.0	Brushy Canyon
2,302.2	2,300.0	Castile
11,368.5	11,330.0	Wolfcamp

Planning Report

Database: Company Projecti EDM Central Planning ConocoPhillips MCBU

Permian Delaware Hz New Mexico Site: Well: Wellbore: Design: GOLDEN SPUR 36 COM W1 2H - PS Golden Spur 36 COM W1 2H

Original Hole

Prelim Design 1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
Moth Reference: North Reference: Survey Calculation Method:

Site GOLDEN SPUR 36 COM W1 2H - PS WELL @ 3171.0usft (Original Well Elev) WELL @ 3171.0usft (Original Well Elev)

Grid

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

6. RIG RELEASE.

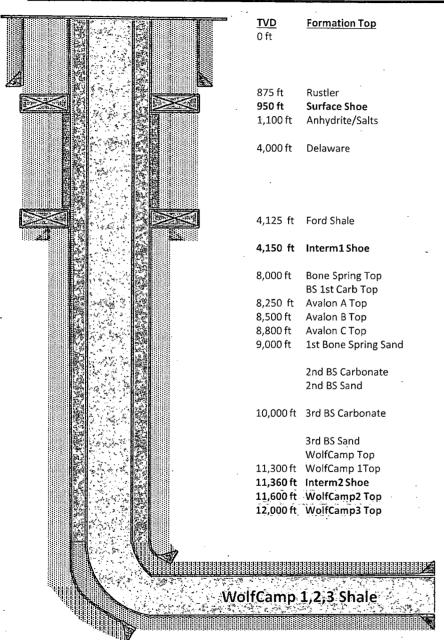
"INTERMEDIATE 1" BATCH

"PRODUCTION" BATCH

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

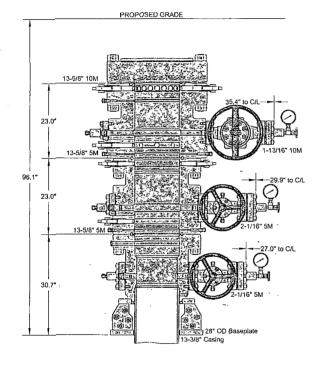
Attachment #2 - Option not to run 9-5/8" Csg

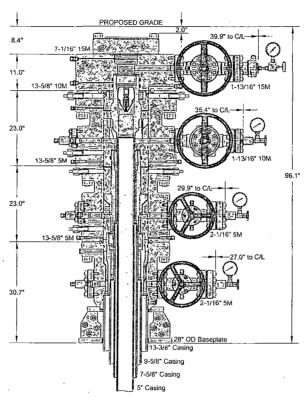


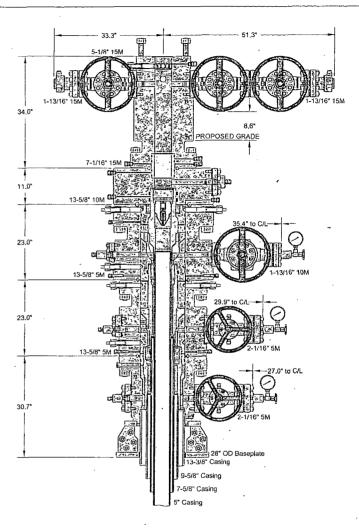
- Surface Section:
 - Objective: Protect fresh water horizons.
 - Drill 17-1/2" hole to +/- 950 ft. "Rustler"
 - Mud weight: 8.6 9.1 ppg FW-Native Mud
 - .º Set 13-3/8" 54.5# J-55 BTC casing.
 - Cement to surface.
- Intermediate1 Section (Only for Contingency):
 - Objective: Isolate the Salado Salt and 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).

19,200 ft TD ~6,500 ft Lateral

Attachment #3







SPUD CONFIGURATION

DRILL & SKID CONFIGURATION

COMPLETION CONFIGURATION

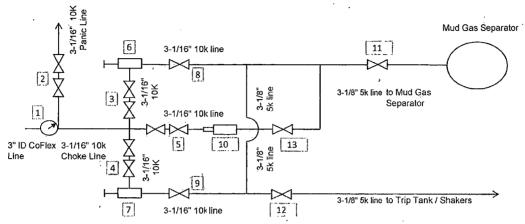
CACTUS WELLHEAD LLC		NOCOPHILI IG CONFIGI	
13-3/8" x 9-5/8" x 7-5/8" x 5" 5M MBS2 Wellhead System . With 13-5/8" 10M x 7-1/16" 15M DBLHPS DSPA And	DRAWN APPRV	THH	23FEB15
7-1/16" 15M x 5-1/8" 15M CMT-FB-EN Tubing Head, 34" Tall	DRAWING NO	o. ODE006	00491

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

CHOKE MANIFOLD ARRANGEMENT - HP486

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

Vent line to flare



All Tees must be Targeted

·ltem	Description

Description
Pressure Gauge
2 Gate Valves, 3-1/16" 10M
Upper Manual Adjustable Choke, 4-1/16", 10M
Lower Manual Adjustable Choke, 4-1/16", 10M
Gate Valve, 3-1/16" 10M

Gate Valve, 3-1/16" 10M Gate Valve, 3-1/16" 10M

Remote Controlled Hydraulic Adjustable Choke, 4-1/16", 10M

11 Gate Valve, 3-1/8" 5M

Gate Valve, 3-1/8" 5M

Gate Valve, 3-1/16" 10M

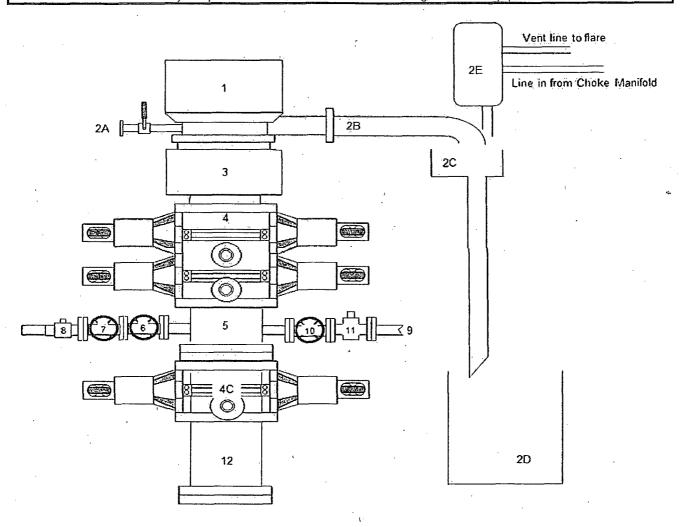
The 10M Choke Manifold & Valves will be tested to rated working pressure.

Drawn by: James Chen, P.E.

Drilling Engineer, ConocoPhillips Company
Date: June 25th-2014

BLOWOUT PREVENTER ARRANGEMENT - H&P486

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



	1
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
2È	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 hoke 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



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

		GEOMET	RY		
Nominal OD	7.625 in.	Nominal Weight	29.70 lbs/ft	Standard Drift Diameter	6.750 in.
Nominal ID 6.875 in.		Wall Thickness	0.375 in.	Special Drift Diameter	N/A
Plain End Weight	29.06 lbs/ft	ı	.]	1	
		PERFORM	ANCE		
Body Yield Strength	940 x 1000 lbs	Internal Yield	9470 psi	SMYS	110000 psi
Collapse	5350 psi				
	V	VEDGE 523™ CONN	ECTION DAT	Α	
•		GEOMET			
Connection OD	7.752 in.	Connection ID	6.800 in.	Make-Up Loss	4.420 in.
Critical Section Area	6.021 sq. in.	Threads per in.	3.29		
		PERFORM	ANCE		
Tension Efficiency	70.5 %	Joint Yield Strength	663 x 1000	Internal Pressure Capacity	9470 psi
Compression Strength	768 x 1000 lbs	Compression Efficiency	81.7 %	Bending	47 °/100 ft
External Pressure Capacity	5350 psi				
		MAKE-UP TO	RQUES		
Minimum	9900 ft-lbs	Target	11900 ft-lbs	Maximum (<u>*</u>)	17300 ft-lbs
	•	OPERATIONAL LIN	IT TORQUES	}	
Operating Torque	52000 ft-lbs	Yield Torque	78000 ft-lbs		

^{*} 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



Size: 5.000 in.

Wall: 0.362 in.

Weight: 18.00 lbs/ft

Grade: P110

Min. Wall Thickness: 87.5 %

TenarisHydril

Casing/Tubing: CAS

Connection: Blue®

Coupling Option: REGULAR

PIPE BODY DATA

		PIPE BODY	DATA		
		GEOMET	r y		
Nominal OD	5,000 in.	Nominal Weight	18.00 lbs/ft	Standard Drift Diameter	4.151 in.
Nominal ID	4.276 in.	Wall Thickness	0.362 in.	Special Drift Diameter	N/A
Plain End Weight	17.95 lbs/ft				
		PERFORM	ANCE		
Body Yield Strength	580 x 1000 lbs	Internal Yield	13940 psi	SMYS	110000 psi
Collapse	13470 psi				
		BLUE® CONNEC	TION DATA		
	'	GEOMET	ry		,
Connection OD	5.630 in.	Coupling Length	10.551 in.	Connection ID	4.264 in.
Critical Section Area	5.275 sq. in.	Make-Up Loss	4.579 in.	Threads per in.	5.00
		PERFORM	ANCE		
Tension Efficiency	100 %	Joint Yield Strength	580 x 1000 lbs	Internal Pressure Capacity	13940 psi
Compression Efficiency	100 %	Compression Strength	580 x 1000 lbs	Bending	101 °/100 ft
External Pressure Capacity	13470 psi				•
		MAKE-UP TO	RQUES		
Minimum	6400 ft-lbs	Target	7110 ft-lbs	Maximum	7820 ft-lbs
		OPERATIONAL LI	MIT TORQUES		
Operating Torque	ASK	Yield Torque	17600 ft-lbs		
		SHOULDER T	ORQUES		
Minimum	1070 ft-lbs	Maximum	6040 ft-lbs		

BLANKING DIMENSIONS

Blanking Dimensions

Datasheet is also valid for Special Bevel option when applicable.

December 18 2014



Size: 5.000 in.

Wall: 0.362 in.

Weight: 18.00 lbs/ft

Grade: P110 Min. Wall Thickness: 87.5 %

Connection: TenarisXP™ BTC

Casing/Tubing: CAS

Coupling Option: REGULAR

		GEOMET	RY		
Nominal OD	5.000 in.	Nominal Weight	18.00 lbs/ft	Standard Drift Diameter	4.151 in.
Nominal ID	4.276 in.	Wall Thickness	0.362 in.	Special Drift Diameter	N/A
Plain End Weight	17.95 lbs/ft				
		PERFORM	ANCE		
Body Yield Strength	580 x 1000 lbs	Internal Yield	13940 psi	SMYS	110000 psi
Collapse	13470 psi				
		UADICVDIM DIC CO		A = 0	
		NARISXP™ BTC CO		AIA	
Connection OD	5.720 in.	GEOMET Coupling Length	9.325 in.	Connection ID	4.264 in.
Critical Section Area	5.275 sq. in.	Threads per in.	5.00	Make-Up Loss	4.141 in.
		PERFORM	ANCE		
Tension Efficiency	100 %	Joint Yield Strength	580 x 1000	Internal Pressure Capacity $^{(\underline{1})}$	13940 psi
Structural Compression Efficiency	100 %	Structural Compression Strength	580 x 1000	Structural Bending ⁽²⁾	101 °/100 f
External Pressure Capacity	13470 psi				
	E	STIMATED MAKE-I	JP TORQUES	(3)	
Minimum	N/A ft-lbs	Target	N/A ft-lbs	Maximum	N/A ft-lbs
		OPERATIONAL LI	MIT TORQUES	5	
Operating Torque	ASK	Yield Torque	N/A ft-lbs		
·		BLANKING DI	AFNSTONS		

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

Attachment # 1

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

©ntinental⊕ CONTITECH

Hose Data Sheet

CRI Order No.	516273
Cuslomer	ContilTech Beattle 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 pai
Design Pressure	10 000 psl
Test Pressure	15 000 psi
Safely Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St. steet outer wap
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 slorage [m]	1,40
Type of packing	WOODEN CRATE ISPM-15



OC-DB- 45/2012

Page:

7/50

Fluid Technology

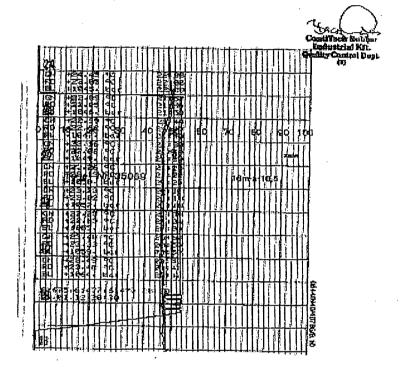
Quality Document

QUALIT INSPECTION A	Y CONT		ATE	CERT.	₩ : ´	184	
PURCHASER: .	ConliTech B	eattie Co.		P.O. N°:		005438	
CONTITECH ORDER Nº:	16273	HOSE TYPE:	3" ID		Choke a	nd Kill Hose	
HOSE SERIAL Nº:	61477	NOMINAL / ACT	UAL LENGTH:		10,67	m / 10,71 m	
W.P. 68,9 MPs 10	0 0 0 psl	T.P. 103,4	MPa 1500	O bal	Duration:	60	min.
10 mm = 10 Min.		See attachmen	nt. (1 page)		·	
→ 10 mm = 20 MPa COUPLINGS Type		Serial Nº		Quality		Heat No	,
3" coupling with	1017			AISI 4130		20231	
4 1/16° 10K API Flenge en	d		A	AISI 4130		33051	
NOT DESIGN	ED FOR W	ELL TESTIN	G			API Spec 16	C
All metal paris are Bewiess WE CERTIFY THAT THE ABOVE INSPECTED AND PRESSURE STATEMENT OF CONFORMER CONFIDENCE OF THE PROPERTY	ESTED AS ABO Y: We hereby	VE WITH SATISFAL certify that the obour	CTORY RESULT	nt supplied	THE TER	conformily with the	R Ipms.
conditions and specifications of accordance with the referenced :	kandarda, coder	chaser Order and the and specifications : COUNTRY OF ORIG	and most the reb	evant acce	vera fabricale epiance criter	ie eug gesjär ledhø se eug gesjär ledhø	and in rements.
0ale: 30, January 2012.	Inspector		Quality Contr		Conditech Industrie Quality Cont (1)	al Resi	700

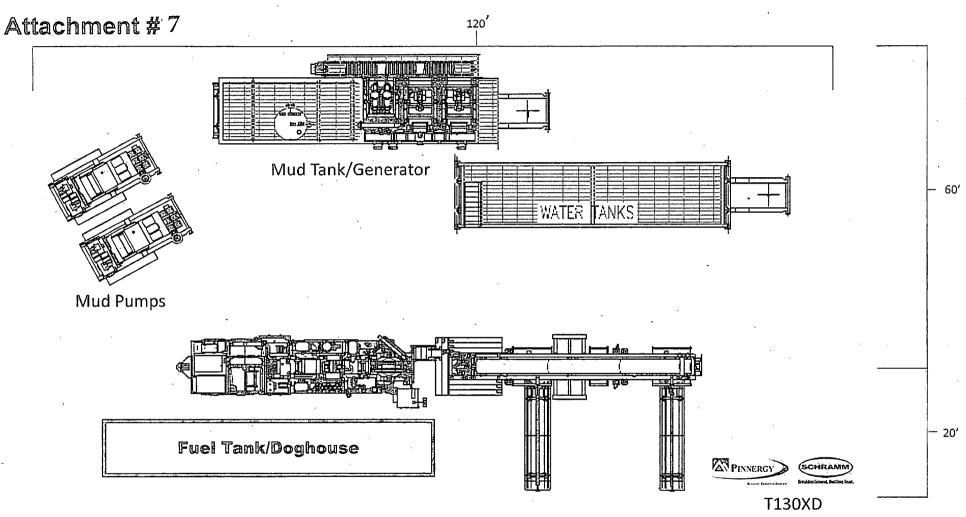
Variance Request

ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE

No: 182, 184, 185 Page: 171

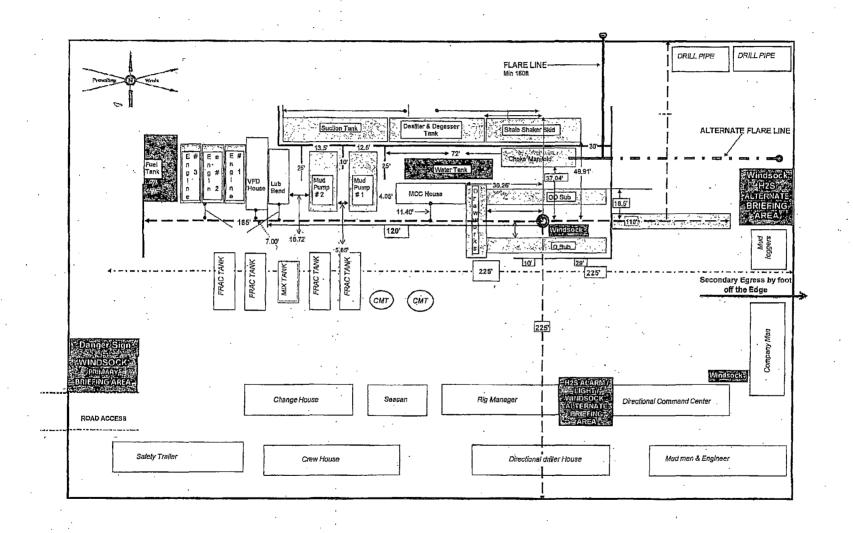


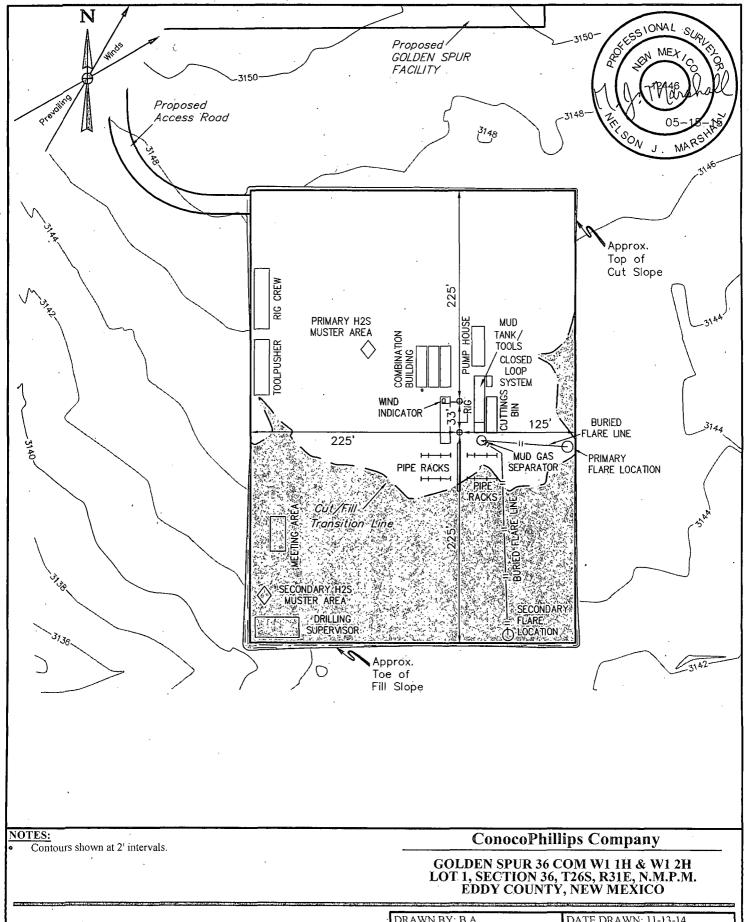
Variance Request



"Pinnergy #1" Spudder Rig Layout

H&P FLEX 3 RIG LAYOUT





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

TE DRAWN: 11-13-14
VISED: 05-07-15 H.W.

SPECIFICATIONS

FLOOR 3/16 PLone piece CROSS MEMBER: 3 x 4 i channel 16 on

WALLS: 8/16' PL solid Welded with tubing

FRONT 3/16 PL slant formed

PICK U.P.: Standard cable with 2" x 6" x 1/4" rails, qui ssel at each crossmember.

Spriffilisase filliw on the XAID OF SAEE HINGS DOOR LATCH: 3 Independent ratchet binders with chains, vertical second latch. GASKE TS: Extruded rubber seal with metal.

retainers
WELDS: All welds confinuous except substructure orossidembers

FINISH: Coated inside and out with direct to metal, rust inhibiting acrylic enamel color coat HYDR@TESTING: 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. Amplice II Hell and Dine pickup

Amplifoli, Hall 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

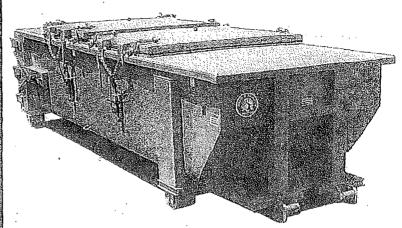
with 8⁴ divider centered on

container

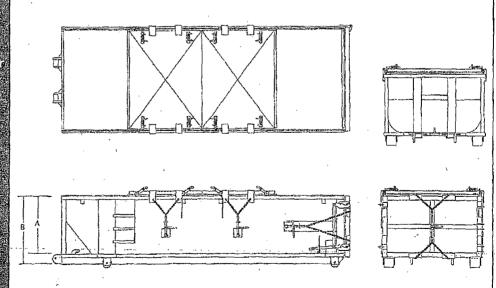
LATCH (2) independent raichei binders wilh chains opillo

GASKETS Extruded rubber seal with metal retainers

Heavy Duty Split Metal Rolling Lid



CONT.	A	В
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 2H Location: Sec. 36, T26S, R31E

Date: 6/25/2015

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 hauloff 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. Pubic 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 H_2S 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). **D**ETECT the problem **ESTIMATE** likely harm without intervention **CHOOSE** response objectives **IDENTIFY** action options **D**O the best option

EVALUATE the progress

	(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 H ₂ S radius of exposure (ROE). All manned barricades must be equipped with an H ₂ S 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

<u>AND</u>

	On-Scene Incident Command Post Public Relations Briefing Area Staging Area Triage Area Decontamination Area	(Cold Zone) (Cold Zone) (Cold Zone) (Cold Zone) (Warm Zone)
	Refer all media personnel to ConocoPhillips' On-Scene Pub	lic Information
	Officer (refer to Section VI: Public Media Relations). Coordinate the attempt to stop the release of H ₂ S. You sho closing upstream and downstream valves to shut-off gas sul and/or plugging or clamping leaks. Igniting escaping gas to toxicity hazard should be used ONLY AS A LAST RESORT be determined if the gas can be safely ignited, taking into continuous c	oply sources, reduce the (It must first ensideration if
	there is a possibility of a widespread flammable atmosphere Once the emergency is over, return the situation to normal be	
	Confirming the absence of H ₂ S and combustible gas that area,	roughout the
	Discontinuing the radio silence on all channels, stating emergency incident is over,	that the
	Removing all barricades and warning signs,	
	Allowing evacuees to return to the area, and	
	Advising all parties previously notified that the emerger ended.	ncy has
	Ensure the proper regulatory authorities/agencies are notified incident (refer to Section V: Emergency Call List).	d of the
	Clean up the site. (Be sure all contractor crews have had ap HAZWOPER training.)	propriate
	Report completion of the cleanup to the Asset Environmenta (Environmentalist will report this to the proper State and/or Fagencies.)	

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.

H₂S monitors 432.580.3770

Breathing air includes cascade systems

First aid and medical supplies

Safety equipment

H2S Specialist

Total Safety US Odessa, Tx/ Hobs, NM 432.561.5049 Odessa 575.392.2973 Hobbs

H₂S monitors

Breathing air includes cascade systems

First aid and medical supplies

Safety equipment

DXP/ Indian Fire & Safety - Hobbs, NM 575.393.3093

H₂S monitors

Breathing air including cascade systems trailer mounted

30 minute air packs

Safety Equipment

TC Safety – Odessa, Tx.

H₂S monitors 432.413.8240

Cascade systems trailer mounted

30 minute air packs

Safety Equipment

H2S Specialist

Secorp Industries – Odessa, Tx. 432.614.2565

H2S Monitor Systems

Cascade Systems

H2S Specialist

H2S, CPR, First Aid Training

Emergency Equipment and Maintenance (continued)

General Information

Materials used for repair should be suitable for use where H_2S 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 H_2S areas shall have received training on the hazards, characteristics, and properties of H_2S , and on procedures and safety equipment applicable for use in H_2S 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 <u>Entrance Warning Sign</u> 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 Windsocks that are clearly visible.
- 1 <u>Audible</u> warning system located on rig floor
- 2 <u>Visual</u> 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 <u>size large</u>, 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 – <u>Tri or Quad gas monitor</u> located at the Drilling Reps office. This will be used to determine if the work area if safe to re-enter prior to returning to work following any alarm.

V. EMERGENCY CALL LIST:

The following is a <u>priority</u> 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.	432.242.7536	940.231.2839
Manuel Castillo	432.242.7536	432.238.7145
Safety Support:		
Tom Samarripa	432.688.9173	432.556.9113
Dennis Martinez	432.688.9012	432.741.1818
Joey Bell	NA	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 Mngt.

Carlsbad Field Office 620 E. Greene St.

Office: 575.234.5972 Fax: 575.885.9264

EMERGENCY CALL LIST: Local Officials

Refer to the <u>Location Information Sheet</u>
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 <u>only with facts</u>, 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 <u>first</u> observing the leak should take <u>immediate</u> 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.

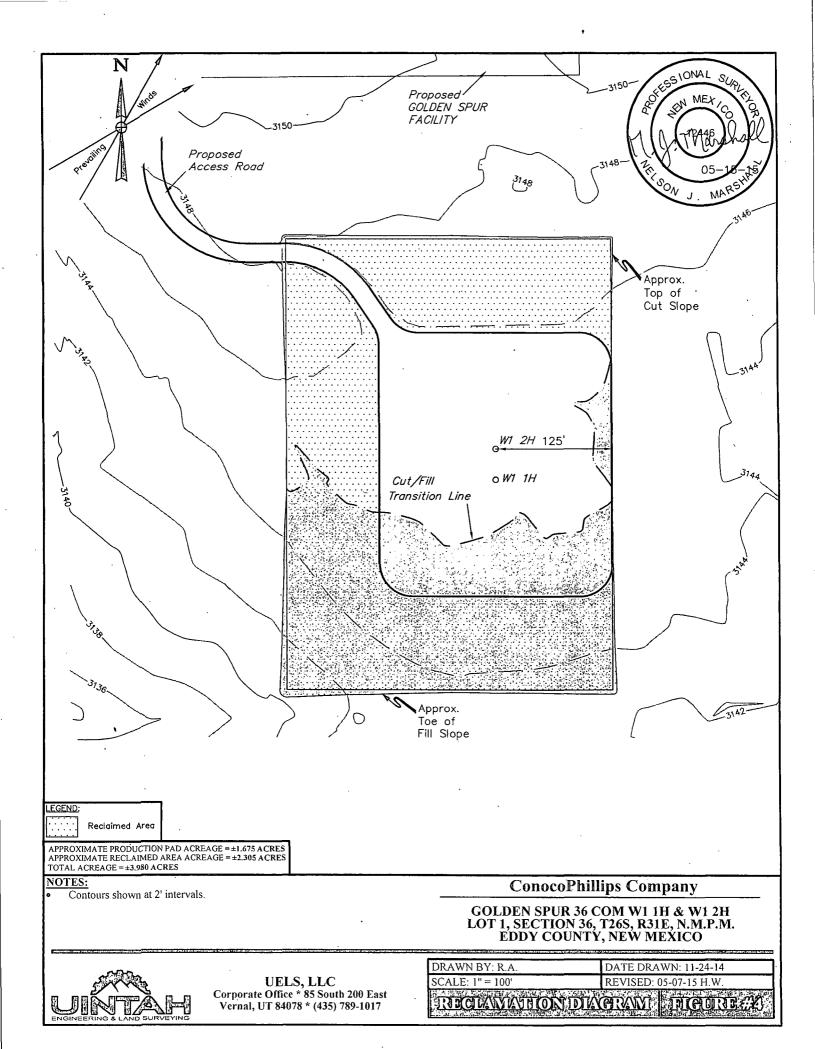
2. Evacuation Procedures – Evacuation will proceed upwind from the source of the release of H₂S. Extreme caution should be exercised in order to avoid any depressions or low-lying areas in the terrain. The public area within the radius of exposure should be evacuated in a southwesterly and southeasterly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

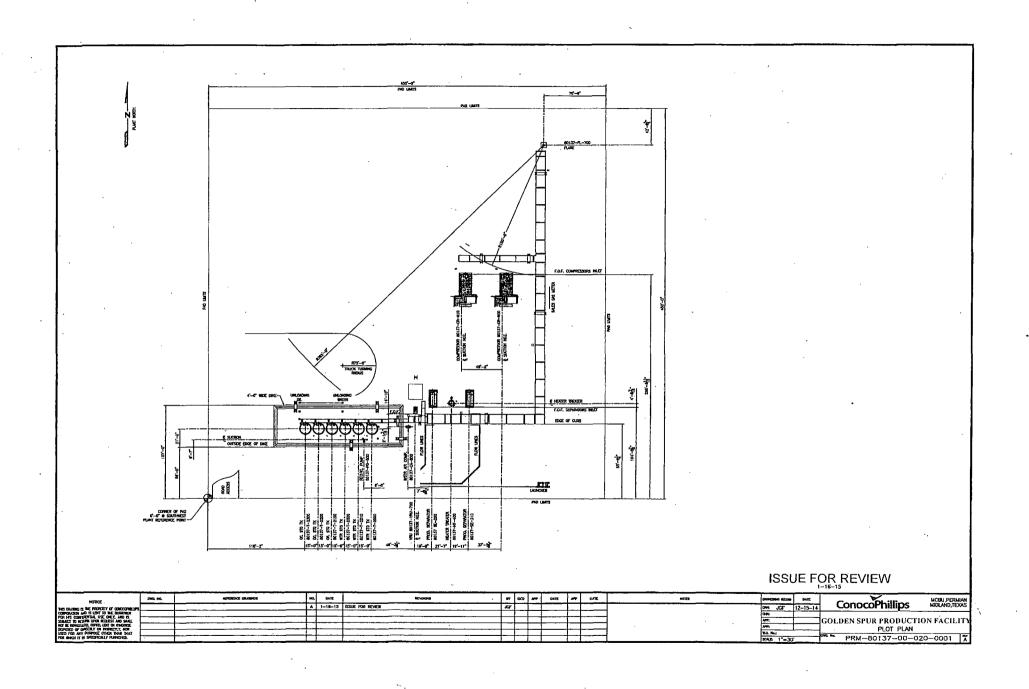
Roadblocks and the staging area should be established as necessary for current wind conditions.

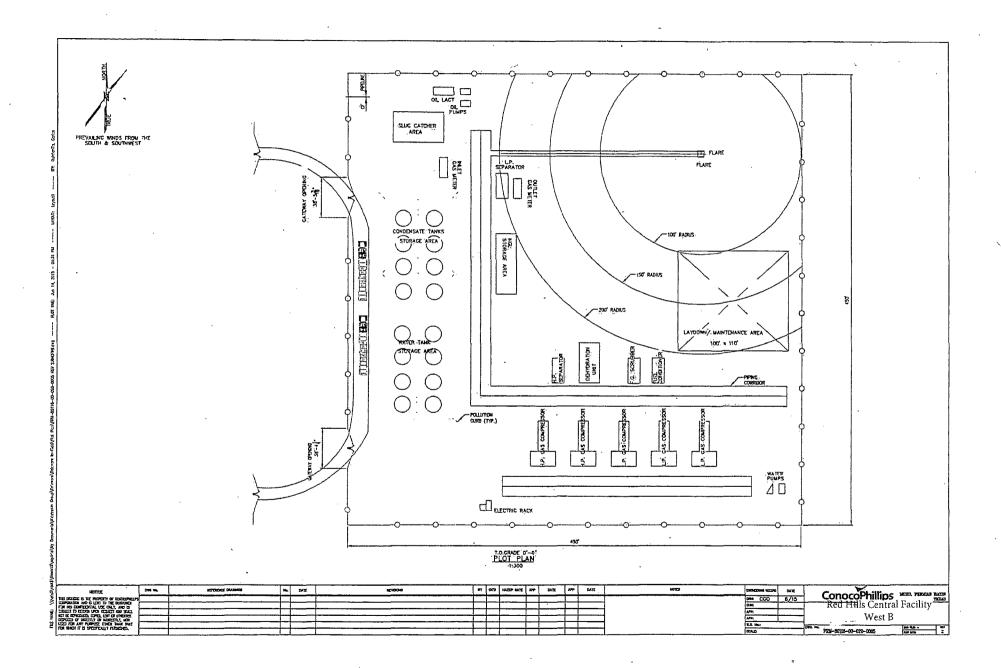
Note: In all situations, consideration should be given to wind direction and weather conditions. H₂S is heavier than air and can settle in low spots. Shifts in wind direction can also change the location of possible hazardous areas.

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







BHL: 50 FNL & 1040 FEL, Section: 25, T.26S., R.31E.

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.

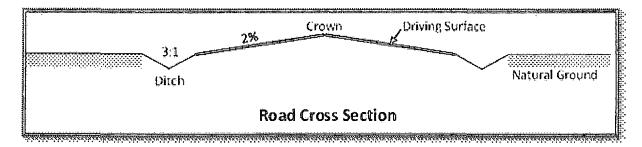
If terms and conditions are attached to the approved APD and amend any of the proposed actions in this surface use plan, we will adhere to the terms and conditions.

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

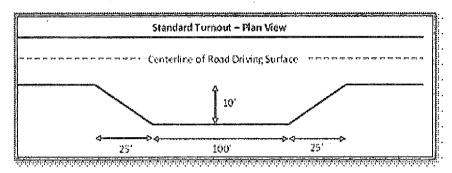
- a. An access road will be needed for this proposed project. See the survey plat for the location of the access road.
- b. The length of access road needed to be constructed for this proposed project is about 1776 feet.
- c. The maximum driving width of the access road will be 20 feet. The maximum width 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.

SHL: 315 FSL & 570 FEL, Section: 36, T.26S., R.31E. BHL: 50 FNL & 1040 FEL, Section: 25, T.26S., R.31E.

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.
- 1. 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 2H, 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.

SHL: 315 FSL & 570 FEL, Section: 36, T.26S., R.31E. BHL: 50 FNL & 1040 FEL, Section: 25, T.26S., R.31E.

- 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 percipitation, 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. Since the proposed pipeline crossess lease boundaries, a right of way grant will be acquired prior to installation of the proposed pipeline.
- 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 Red Hills Trunk 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 crossess 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.

SHL: 315 FSL & 570 FEL, Section: 36, T.26S., R.31E. BHL: 50 FNL & 1040 FEL, Section: 25, T.26S., R.31E.

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' archaeoligical 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 respreading. 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.

BHL: 50 FNL & 1040 FEL, Section: 25, T.26S., R.31E.

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

BHL: 50 FNL & 1040 FEL, Section: 25, T.26S., R.31E.

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, Texas 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 1H. 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 2H, 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

BHL: 50 FNL & 1040 FEL, Section: 25, T.26S., R.31E.

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: 6/29/15

Ashley Bergen

Regulatory Specialist

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
COUNTY:
COUNTY:
COUNCEPTION:
COUNTY:
COUNCEPTION:
COUNTY:
COUNCEPTION:
COUNCEPTION:
COUNTY:
COUNCEPTION:
COUNTY:
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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.

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⊠, Construction
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Closed Loop System
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Well Pads
Roads
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☑ Drilling
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Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
Interim Reclamation
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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 Stipulation

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, APLÍC, 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

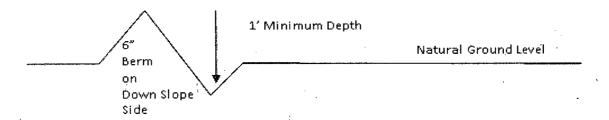
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping 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 foot road with 4% road slope:
$$\frac{400'}{4\%}$$
 + 100' = 200' 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
- 3. Redistribute topsoil
- 2. Construct road
- 4. Revegetate slopes

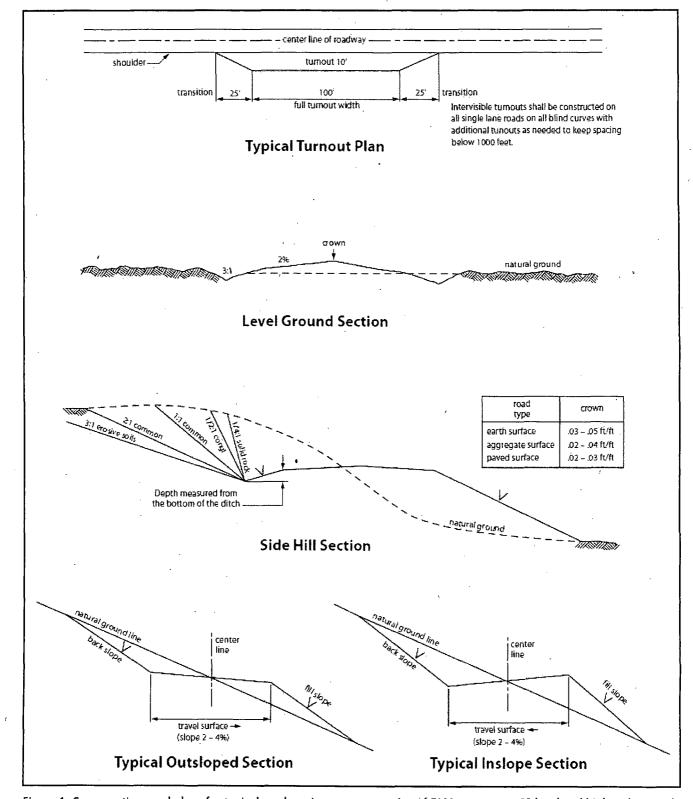


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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.

<u>Contingency Casing:</u> 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	I fill of cement	behind the 9-5/8	s inch intermediate	casing is

Ement 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

\infty 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:

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.

1. 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

- 2. 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.
- 3. 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.
- 4. 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 1½ 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 1½ 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.

	requirements, using the following seed		x.
	() seed mixture 1	() seed mixture 3
	(x) seed mixture 2	() seed mixture 4
	() seed mixture 2/LPC	() Aplomado Falcon Mixture
to blenc	· ·	e. T	ety requirements shall be painted by the holder The paint used shall be color which simulates Munsell Soil Color No. 5Y 4/2.
way and number	d at all road crossings. At a minimum, and the product being transported. All ent, conspicuous manner, and will be n	sigi Il si	point of origin and completion of the right-of- ns will state the holder's name, BLM serial gns and information thereon will be posted in a stained in a legible condition for the life of the
mainter before r pipeline	maintenance begins. The holder will ta	uth ke v tern	orized Officer in consultation with the holder whatever steps are necessary to ensure that the nined necessary during the life of the pipeline,
discove immedi immedi Authori determi holder v	ately reported to the Authorized Office ate area of such discovery until written ized Officer. An evaluation of the discone appropriate actions to prevent the lo	ng o er. I aut over oss o atio	on his behalf, on public or Federal land shall be Holder shall suspend all operations in the thorization to proceed is issued by the ry will be made by the Authorized Officer to of significant cultural or scientific values. The on and any decision as to proper mitigation
of opera which is of weed	ations. Weed control shall be required on cludes associated roads, pipeline corries due to this action. The operator shall	on tl idor con	ous weeds become established within the areas he disturbed land where noxious weeds exist, and adjacent land affected by the establishmen isult with the Authorized Officer for acceptable PA and BLM requirements and policies.
			nd maintain pipeline/utility trenches that are no vestock, 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 of duney 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 ______ 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 <u>no</u> 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:

Species	r	l <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus)	•	1.0
Sand love grass (Eragrostis trichodes)		1.0
Plains bristlegrass (Setaria macrostachya)		2.0

^{*}Pounds of pure live seed:

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