

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED

JUN 18 2012

RCVD JUL 31 '12
OIL CONS. DIV.

DIST. 3

1a. Type of Work DRILL	5. Lease Number SF-080781 Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator ConocoPhillips Company	7. Unit Agreement Name	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Yert COM H2MC 9. Well Number 1H	
4. Location of Well Surface: Unit B (NWNE), 1265' FNL & 2335' FEL BHL : Unit D (NWNW), 1135 FNL & 848' FWL Surface: Latitude: 36.68594° N (NAD83) Longitude: 107.4926198° W BHL : Latitude: 36.68670° N (NAD83) Longitude: 107.84275° W	10. Field, Pool, Wildcat Basin Mancos 11. Sec., Twn, Rge, Mer. (NMPM) Surf: Sec. 31, T29N, R9W BHL : Sec. 36, T29N, 10W API# 30-045- 35383	
14. Distance in Miles from Nearest Town 13 miles from Bloomfield	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Well 848'	17. Acres Assigned to Well See Attached plat	
16. Acres in Lease	17. Acres Assigned to Well See Attached plat	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 102' from Cain #725N - FC	20. Rotary or Cable Tools Rotary	
19. Proposed Depth 5773	22. Approx. Date Work will Start	
21. Elevations (DF, FT, GR, Etc.) 5730' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	22. Approx. Date Work will Start	
24. Authorized by: <u>Arleen Kellywood</u> Arleen Kellywood (Staff Regulatory)	Date <u>6-18-12</u>	

Hold C104
for Directional Survey
and "As Drilled" plat

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report attached

A gas recovery unit may or may not be used on this location.

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

Bond Numbers ES-0048 and ES-0085

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

AUG 08 2012

for Directional Survey
and "As Drilled" plat
NMOCD A

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.9
and appeal pursuant to 43 CFR 3165.4

Com Agreement
Required

elt

RECEIVED

JUN 18 2012

DISTRICT I

1825 N French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6181 Fax: (575) 393-0720

DISTRICT II

811 S First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III

1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV

1220 S St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 476-3480 Fax: (505) 476-3482State of New Mexico
Energy, Minerals & Natural Resources Department
Farmington Field Office
Bureau of Land Management

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35383		² Pool Code 97232	³ Pool Name BASIN MANCOS
⁴ Property Code 39375	⁵ Property Name YERT COM HZMC		⁶ Well Number 1H
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY		⁹ Elevation 5730'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	31	29N	9W	6	1265'	NORTH	2335'	EAST	SAN JUAN

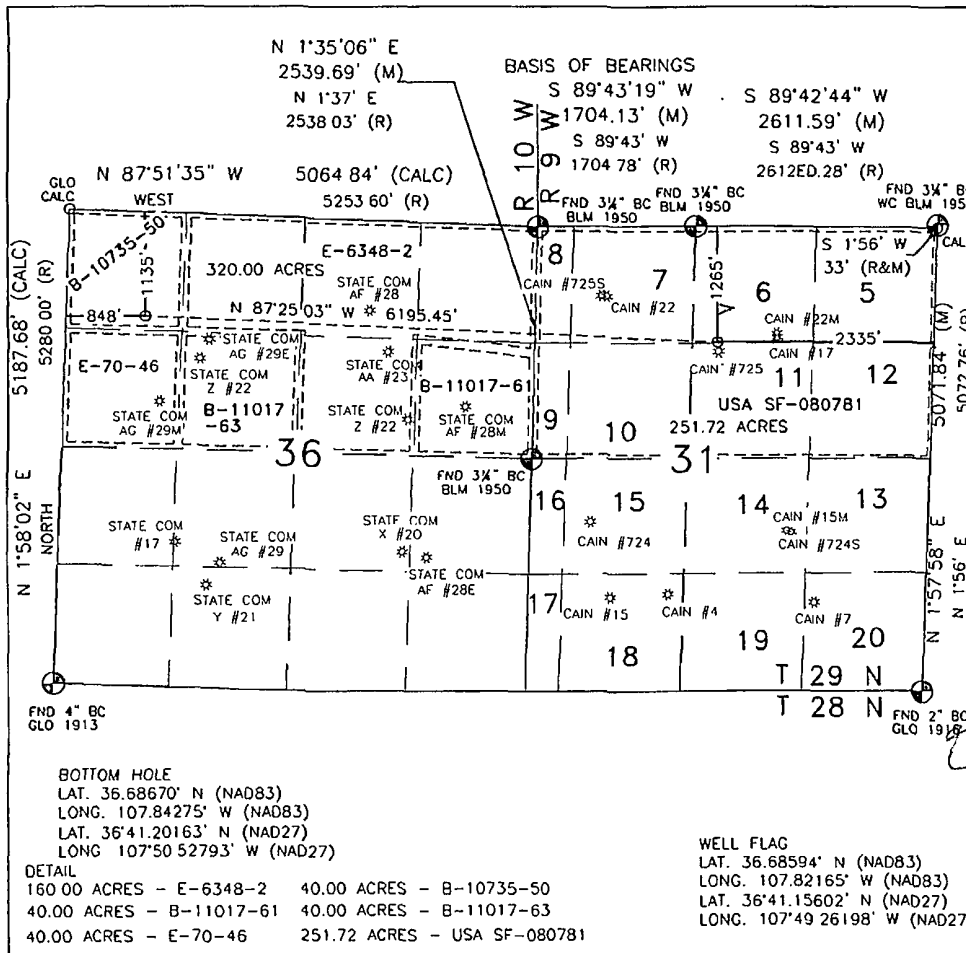
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	36	29N	10W		1135'	NORTH	848'	WEST	SAN JUAN

¹² Dedicated Acres PROJECT AREA 571.72 ACRES - SEE DETAIL BELOW	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13499
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Arleen Kellywood 6-18-12
Signature DateArleen Kellywood
Printed Name

arleen.r.kellywood@conocophillips.com

E-mail Address

18 SURVEYOR CERTIFICATION

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

MARCH 27, 2012

Date of Survey

Signature and Seal of Professional Surveyor:

DAVID R. RUSSELL
NEW MEXICO
REGISTERED SURVEYOR
1020
Certificate Number 10201

Technical Plan

RECEIVED

JUL 13 2012

Farmington Field Office
Bureau of Land Management

1. Location

Yert HZMC 1H

SHL: 1265' FNL, 2335' FEL -- T 29N, R 9W, Sec 31

BHL: 1135' FNL, 848' FWL -- T 29N, R 10W, Sec 36

GL: 5730'

2. Geological Markers

Anticipated formation tops with comments of any possible water, gas, or oil shows are indicated below:

Formation	Depth (TVD)	Remarks
Nacimiento	Surface	Water
Ojo Alamo	908'	Possible Water
Kirtland	1087'	
Fruitland	1556'	Possible Gas
Pictured Cliffs	2054'	
Lewis	2208'	
Chacra	3020'	
Upper Cliffhouse	3622'	
Massive Cliffhouse	3706'	Gas
Menefee	3733'	
Point Lookout	4336'	Gas
Mancos	4700'	
El Vado	5519'	Oil/Gas
Basal Niobrara	5826'	

See attached directional plan for anticipated formation tops in measure depth.

3. Pressure Control Equipment

See Attached BOPE & Choke Manifold Schematic for a diagram of pressure control equipment.

- BOPE will be nipped up on top of wellhead after surface casing is set and cemented.
- Pressure control configuration will be designed to meet and exceed 2M standards.
- All equipment will have 3M pressure ratings.
- A rotating head will be rigged up on top of annular as seen in attached diagram.

4. Casing & Cement Program

A) The proposed casing program is outlined below:

Proposed Casing				
Casing	Hole Size	Casing Size	Weight/Grade	Depth
Surface	17-1/2"	13-3/8"	40#, H-40, STC, New	0' - 320'
Intermediate 1	12-1/4"	9-5/8"	36#, H-40, STC, New	0' - 2308' (TVD)
Intermediate 2	8-3/4"	7"	26.0#, L-80, LTC, New	0' - 5243' (TVD)
Production Liner	6-1/8"	4-1/2"	11.6#, P-110, BTC, New	5243' - 11809' (MD)

The production liner will be tied back into the intermediate casing string with a liner hanger with a pack-off element.

A 4-1/2", 11.6#, P-110, BTC (new) frac string will be ran and tied into liner hanger for the stimulation.

If the 6 1/8" hole is not drilled to total MD, the production liner setting depth and length will be adjusted accordingly.

B) The proposed cement program is shown below:

Cement Program				
Interval	Depth (TVD)	Volume	Slurry	Planned Cement Top
Surface	320'	370 ft ³	Lead Cmt: Type III Cmt 0.25 pps Celloflake 1.25 ft ³ /sk -- 5.75 gal/sk 15.2 ppg	Surface
Intermediate 1	2308'	1072 ft ³	Lead Cmt: Premium Lite 3% CaCl, 0.25 pps celloflake, 5 ppm LCM-1, 0.4% FL-52, 8% Bentonite, 0.4% SMS 2.13 ft ³ /sk -- 11.29 gal/sk 12.1 ppg Tail Cmt: Type III 1% CaCl, 0.25 pps celloflake, 0.2% FL-52 1.38 ft ³ /sk -- 6.64 gal/sk 14.6 ppg	Surface
Intermediate 2	5243'	1074 ft ³	Lead Cmt: Premium Lite 3% CaCl, 0.25 pps celloflake, 5 ppm LCM-1, 0.4% FL-52, 8% Bentonite, 0.4% SMS 2.13 ft ³ /sk -- 11.29 gal/sk 12.1 ppg Tail Cmt: Type III 1% CaCl, 0.25 pps celloflake, 0.2% FL-52 1.38 ft ³ /sk -- 6.64 gal/sk 14.6 ppg	Surface
Production	N/A	N/A	N/A – Sliding sleeves and external swellable casing packers will be utilized	N/A

For either of the intermediate holes, a 2-stage cement job may be performed if hole conditions indicate during operations. Stage tool will be placed appropriately as conditions indicate.

C) The proposed centralizer program is shown below:

Centralizer Program	
Interval	Centralizers
Surface	1 per joint on bottom 3 joints
Intermediate 1	10' above shoe jnt w/ collar clamp On top of 2 nd , 4 th , 6 th , 8 th , 10 th jnts 1 every 4 th jnt to Ojo Alamo 1 Turbolizer at base of Ojo Alamo 1 every joint thru Ojo Alamo 1 Turbolizer will be placed mid way into Ojo Alamo 1 every 4 th jnt from top of Ojo Alamo up to surface shoe 1 inside surface casing
Intermediate 2	10' above shoe jnt w/ collar clamp On top of 2 nd , 4 th , 6 th , 8 th , 10 th jnts 1 every 4 th jnt above 10 th jnt to intermediate 1 casing shoe 1 inside intermediate 1 casing
Production	N/A

To allow adequate time for cement to achieve a minimum of 500 psi compressive strength, a minimum of 8 hours wait on cement time for each hole section will be observed. The wellhead will not be installed, casing will not be tested, and the prior casing shoe will not be drilled out until adequate wait on cement time is achieved.

Production hole will be completed/stimulated by means of sliding sleeves spaced out appropriately throughout the production liner. Swellable packers will be placed between sleeves to provide isolation for each stage.

5. Drilling Fluids

A) The proposed drilling fluid program is outlined below:

Mud Program				
Interval	Mud Type	Weight (ppg)	Fluid Loss (cc)	Invert Ratio (Diesel/Brine)
Surface	Air Water / Gel System	Air 8.3 - 9.2	NC	
Intermediate 1	LSND / Gel system	8.4 - 10	6 - 14	
Intermediate 2	LSND / Gel system Air	8.4 - 10 Air	6 - 14	
Production	Oil Based Mud	7.0 - 8.5	4 - 12	70/30 - 90/10

The 2nd intermediate hole will be drilled with either air or a water based mud (LSND/Gel) as hole indicates.

Oil based mud will be an Invert Mud. Base fluid will be diesel. Brine fluid will be CaCl or KCl.

LCM may be added to the mud system if hole conditions indicate.

- B) Closed loop equipment will be utilized for solids control. A lined cutting pit will be utilized for water based cutting from upper hole sections. Cuttings from production hole will be hauled off to approved disposal site.

6. Abnormal Pressures & Hazards

- No over-pressured intervals expected.
- Estimated Reservoir Pressure = 1320 psi.
- No hydrogen sulfide gas is expected based off nearby well production.
- Since the well is located inside of Fruitland Coal “fairway” and Mesa Verde production intervals the following are anticipated loss zones or depleted zones:
 - Fruitland estimated pressure = 600
 - Picture Cliffs estimated pressure = 200 psi
 - Point Lookout estimate pressure = 850 psi

7. Testing, Logging, Coring

- Mud Logs: Mud loggers will be rigged up from KOP to production hole TD.
- MWD: Directional tools from KOP to production hole TD.
- LWD: Gamma Ray and Resistivity will be utilized in production hole for well placement.
- Logs: No planned open hole logs (other than the previously identified LWD logs) will be ran.
- Cased Hole Logs: A Temp Survey or CBL will be ran on the intermediate hole if cement is not circulated to surface during intermediate cement job.

8. Directional Plan

The planned wellbore directional plan and plot is attached.

The planned directional plan is built off geological targets from offset wells. The production hole will be landed and drilled within target formation horizontally utilizing LWD equipment to help steer the wellbore. On site adjustments will be made to the directional plan as formation and hole indicates.

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJBW
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Yert HZMC #1
 Wellbore: Original Wellbore
 Design: APD Plan Rev.1 - Submitted

Local Co-ordinate Reference: Well Yert HZMC #1
 TVD Reference: WELL @ 5745.0ft (Original Well Elev)
 MD Reference: WELL @ 5745.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Project	San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site		Other Named Wells			
Site Position:		Northing:	2,063,826.04 ft	Latitude:	36° 40' 18.848 N
From:	Lat/Long	Easting:	504,691.02 ft	Longitude:	107° 49' 2.415 W
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"	Grid Convergence:	0.01 °

Well	Yert HZMC #1					
Well Position	+N/-S	0.0 ft	Northing:	2,068,933.97 ft	Latitude:	36° 41' 9.362 N
	+E/-W	0.0 ft	Easting:	503,606.67 ft	Longitude:	107° 49' 15.718 W
Position Uncertainty		3.0 ft	Wellhead Elevation:	ft	Ground Level:	5,730.0 ft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	5/7/2012	9.80	63.38	50,576

Design	APD Plan Rev.1 - Submitted			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	272.57

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,343.4	0.00	0.00	5,343.4	0.0	0.0	0.00	0.00	0.00	0.00	
6,098.0	90.55	272.57	5,820.8	21.6	-481.6	12.00	12.00	0.00	272.57	
11,809.4	90.55	272.57	5,766.0	277.4	-6,187.0	0.00	0.00	0.00	0.00	YERT HZMC 1H - BH

ConocoPhillips or its affiliates

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 MD Reference: WELL @ 5745.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
15.0	0.00	0.00	15.0	0.0	0.0	0.0	0.00	0.00	0.00
Nacimiento									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
13 3/8" Surface Casing									
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
908.0	0.00	0.00	908.0	0.0	0.0	0.0	0.00	0.00	0.00
Ojo Alamo									
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,087.0	0.00	0.00	1,087.0	0.0	0.0	0.0	0.00	0.00	0.00
Kirtland									
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	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
1,556.0	0.00	0.00	1,556.0	0.0	0.0	0.0	0.00	0.00	0.00
Fruitland									
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,054.0	0.00	0.00	2,054.0	0.0	0.0	0.0	0.00	0.00	0.00
Pictured Cliffs									
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,208.0	0.00	0.00	2,208.0	0.0	0.0	0.0	0.00	0.00	0.00
Lewis									
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,308.0	0.00	0.00	2,308.0	0.0	0.0	0.0	0.00	0.00	0.00
9 5/8" Intermediate 1 Casing									
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,020.0	0.00	0.00	3,020.0	0.0	0.0	0.0	0.00	0.00	0.00
Huerfano Bentonite									
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Yert HZMC #1
 Wellbore: Original Wellbore
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 TVD Reference: WELL @ 5745.0ft (Original Well Elev)
 MD Reference: WELL @ 5745.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,622.0	0.00	0.00	3,622.0	0.0	0.0	0.0	0.00	0.00	0.00
Chacra									
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,733.0	0.00	0.00	3,733.0	0.0	0.0	0.0	0.00	0.00	0.00
Mass. Cliffhouse									
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,336.0	0.00	0.00	4,336.0	0.0	0.0	0.0	0.00	0.00	0.00
Menefee - Point Lookout									
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
Mancos									
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,243.0	0.00	0.00	5,243.0	0.0	0.0	0.0	0.00	0.00	0.00
7" Intermediate 2 Casing									
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,343.4	0.00	0.00	5,343.4	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	6.79	272.57	5,399.9	0.2	-3.3	3.4	12.00	12.00	0.00
5,500.0	18.79	272.57	5,497.2	1.1	-25.4	25.5	12.00	12.00	0.00
5,523.2	21.58	272.57	5,519.0	1.5	-33.4	33.5	12.00	12.00	0.00
El Vado									
5,600.0	30.79	272.57	5,587.8	3.0	-67.2	67.3	12.00	12.00	0.00
5,700.0	42.79	272.57	5,667.8	5.7	-127.0	127.1	12.00	12.00	0.00
5,800.0	54.79	272.57	5,733.5	9.1	-202.0	202.2	12.00	12.00	0.00
5,900.0	66.79	272.57	5,782.2	13.0	-289.0	289.3	12.00	12.00	0.00
6,000.0	78.79	272.57	5,811.7	17.2	-384.3	384.7	12.00	12.00	0.00
6,098.0	90.55	272.57	5,820.8	21.6	-481.6	482.0	12.00	12.00	0.00
6,100.0	90.55	272.57	5,820.8	21.7	-483.6	484.1	0.00	0.00	0.00
6,200.0	90.55	272.57	5,819.8	26.2	-583.5	584.1	0.00	0.00	0.00
6,300.0	90.55	272.57	5,818.9	30.6	-683.4	684.1	0.00	0.00	0.00
6,400.0	90.55	272.57	5,817.9	35.1	-783.3	784.1	0.00	0.00	0.00
6,500.0	90.55	272.57	5,817.0	39.6	-883.2	884.1	0.00	0.00	0.00
6,600.0	90.55	272.57	5,816.0	44.1	-983.1	984.1	0.00	0.00	0.00
6,700.0	90.55	272.57	5,815.0	48.5	-1,083.0	1,084.1	0.00	0.00	0.00
6,800.0	90.55	272.57	5,814.1	53.0	-1,182.9	1,184.0	0.00	0.00	0.00
6,900.0	90.55	272.57	5,813.1	57.5	-1,282.8	1,284.0	0.00	0.00	0.00
7,000.0	90.55	272.57	5,812.2	62.0	-1,382.7	1,384.0	0.00	0.00	0.00
7,100.0	90.55	272.57	5,811.2	66.5	-1,482.5	1,484.0	0.00	0.00	0.00
7,200.0	90.55	272.57	5,810.2	70.9	-1,582.4	1,584.0	0.00	0.00	0.00
7,300.0	90.55	272.57	5,809.3	75.4	-1,682.3	1,684.0	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJBU
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Yert HZMC #1
 Wellbore: Original Wellbore
 Design: APD Plan Rev 1 - Submitted

Local Co-ordinate Reference: Well Yert HZMC #1
 TVD Reference: WELL @ 5745 0ft (Original Well Elev)
 MD Reference: WELL @ 5745 0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,400.0	90.55	272.57	5,808.3	79.9	-1,782.2	1,784.0	0.00	0.00	0.00
7,500.0	90.55	272.57	5,807.4	84.4	-1,882.1	1,884.0	0.00	0.00	0.00
7,600.0	90.55	272.57	5,806.4	88.9	-1,982.0	1,984.0	0.00	0.00	0.00
7,700.0	90.55	272.57	5,805.4	93.3	-2,081.9	2,084.0	0.00	0.00	0.00
7,800.0	90.55	272.57	5,804.5	97.8	-2,181.8	2,184.0	0.00	0.00	0.00
7,900.0	90.55	272.57	5,803.5	102.3	-2,281.7	2,284.0	0.00	0.00	0.00
8,000.0	90.55	272.57	5,802.6	106.8	-2,381.6	2,384.0	0.00	0.00	0.00
8,100.0	90.55	272.57	5,801.6	111.2	-2,481.5	2,484.0	0.00	0.00	0.00
8,200.0	90.55	272.57	5,800.6	115.7	-2,581.4	2,584.0	0.00	0.00	0.00
8,300.0	90.55	272.57	5,799.7	120.2	-2,681.3	2,684.0	0.00	0.00	0.00
8,400.0	90.55	272.57	5,798.7	124.7	-2,781.2	2,784.0	0.00	0.00	0.00
8,500.0	90.55	272.57	5,797.8	129.2	-2,881.1	2,884.0	0.00	0.00	0.00
8,600.0	90.55	272.57	5,796.8	133.6	-2,981.0	2,984.0	0.00	0.00	0.00
8,700.0	90.55	272.57	5,795.8	138.1	-3,080.9	3,084.0	0.00	0.00	0.00
8,800.0	90.55	272.57	5,794.9	142.6	-3,180.8	3,184.0	0.00	0.00	0.00
8,900.0	90.55	272.57	5,793.9	147.1	-3,280.7	3,284.0	0.00	0.00	0.00
9,000.0	90.55	272.57	5,793.0	151.5	-3,380.6	3,383.9	0.00	0.00	0.00
9,100.0	90.55	272.57	5,792.0	156.0	-3,480.4	3,483.9	0.00	0.00	0.00
9,200.0	90.55	272.57	5,791.0	160.5	-3,580.3	3,583.9	0.00	0.00	0.00
9,300.0	90.55	272.57	5,790.1	165.0	-3,680.2	3,683.9	0.00	0.00	0.00
9,400.0	90.55	272.57	5,789.1	169.5	-3,780.1	3,783.9	0.00	0.00	0.00
9,500.0	90.55	272.57	5,788.2	173.9	-3,880.0	3,883.9	0.00	0.00	0.00
9,600.0	90.55	272.57	5,787.2	178.4	-3,979.9	3,983.9	0.00	0.00	0.00
9,700.0	90.55	272.57	5,786.2	182.9	-4,079.8	4,083.9	0.00	0.00	0.00
9,800.0	90.55	272.57	5,785.3	187.4	-4,179.7	4,183.9	0.00	0.00	0.00
9,900.0	90.55	272.57	5,784.3	191.8	-4,279.6	4,283.9	0.00	0.00	0.00
10,000.0	90.55	272.57	5,783.4	196.3	-4,379.5	4,383.9	0.00	0.00	0.00
10,100.0	90.55	272.57	5,782.4	200.8	-4,479.4	4,483.9	0.00	0.00	0.00
10,200.0	90.55	272.57	5,781.4	205.3	-4,579.3	4,583.9	0.00	0.00	0.00
10,300.0	90.55	272.57	5,780.5	209.8	-4,679.2	4,683.9	0.00	0.00	0.00
10,400.0	90.55	272.57	5,779.5	214.2	-4,779.1	4,783.9	0.00	0.00	0.00
10,500.0	90.55	272.57	5,778.6	218.7	-4,879.0	4,883.9	0.00	0.00	0.00
10,600.0	90.55	272.57	5,777.6	223.2	-4,978.9	4,983.9	0.00	0.00	0.00
10,700.0	90.55	272.57	5,776.6	227.7	-5,078.8	5,083.9	0.00	0.00	0.00
10,800.0	90.55	272.57	5,775.7	232.2	-5,178.7	5,183.9	0.00	0.00	0.00
10,900.0	90.55	272.57	5,774.7	236.6	-5,278.6	5,283.9	0.00	0.00	0.00
11,000.0	90.55	272.57	5,773.8	241.1	-5,378.5	5,383.9	0.00	0.00	0.00
11,100.0	90.55	272.57	5,772.8	245.6	-5,478.3	5,483.9	0.00	0.00	0.00
11,200.0	90.55	272.57	5,771.9	250.1	-5,578.2	5,583.8	0.00	0.00	0.00
11,300.0	90.55	272.57	5,770.9	254.5	-5,678.1	5,683.8	0.00	0.00	0.00
11,400.0	90.55	272.57	5,769.9	259.0	-5,778.0	5,783.8	0.00	0.00	0.00
11,500.0	90.55	272.57	5,769.0	263.5	-5,877.9	5,883.8	0.00	0.00	0.00
11,600.0	90.55	272.57	5,768.0	268.0	-5,977.8	5,983.8	0.00	0.00	0.00
11,700.0	90.55	272.57	5,767.1	272.5	-6,077.7	6,083.8	0.00	0.00	0.00
11,800.0	90.55	272.57	5,766.1	276.9	-6,177.6	6,183.8	0.00	0.00	0.00
11,809.0	90.55	272.57	5,766.0	277.3	-6,186.6	6,192.8	0.00	0.00	0.00
4 1/2" Production Liner									
11,809.4	90.55	272.57	5,766.0	277.4	-6,187.0	6,193.3	0.00	0.00	0.00
YERT HZMC 1H - BHL									

ConocoPhillips or its affiliates
Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Yert HZMC #1
Wellbore: Original Wellbore
Design: APD Plan Rev 1 - Submitted

Local Co-ordinate Reference: Well Yert HZMC #1
TVD Reference: WELL @ 5745 0ft (Original Well Elev)
MD Reference: WELL @ 5745 0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
YERT HZMC 1H - BHL	0 00	0.00	5,766.0	277.4	-6,187.0	2,069,210 51	497,420.11	36° 41' 12 098 N	107° 50' 31.676 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(ft)	(ft)		(")	(")	
320.0	320 0	13 3/8" Surface Casing	13-3/8	17-1/2	
2,308.0	2,308 0	9 5/8" Intermediate 1 Casing	9-5/8	12-1/4	
5,243.0	5,243.0	7" Intermediate 2 Casing	7	8-3/4	
11,809.0	5,766.0	4 1/2" Production Liner	4-1/2	6-1/8	

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
4,336.0	4,336.0	Menefee		0 00	
5,523.2	5,519.0	El Vado		0.00	
15.0	15 0	Nacimiento		0.00	
1,556 0	1,556.0	Fruitland		0 00	
1,087.0	1,087.0	Kirtland		0 00	
908.0	908.0	Ojo Alamo		0.00	
3,733 0	3,733.0	Mass. Cliffhouse		0 00	
2,208.0	2,208.0	Lewis		0.00	
4,700.0	4,700.0	Mancos		0.00	
3,622.0	3,622.0	Chacra		0.00	
3,020 0	3,020.0	Huerfano Bentonite		0.00	
2,054.0	2,054.0	Pictured Cliffs		0.00	
4,336.0	4,336.0	Point Lookout		0.00	

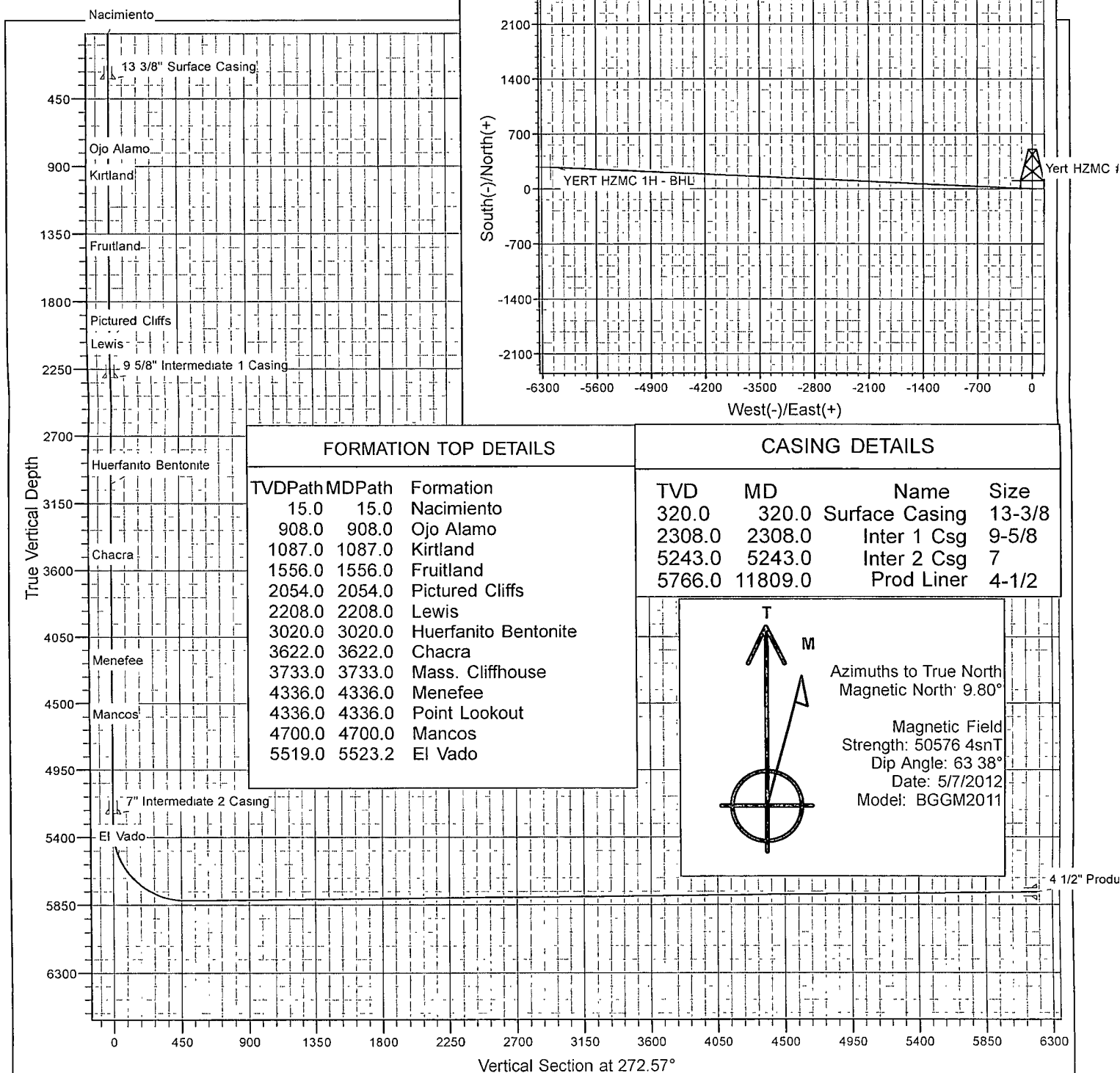
REFERENCE INFORMATION

WELL @ 5745.0ft (Original Well Elev)
Ground Elevation 5730.0
Reference Lat: 36° 41' 9.362 N
Reference Long: 107° 49' 15.718 W

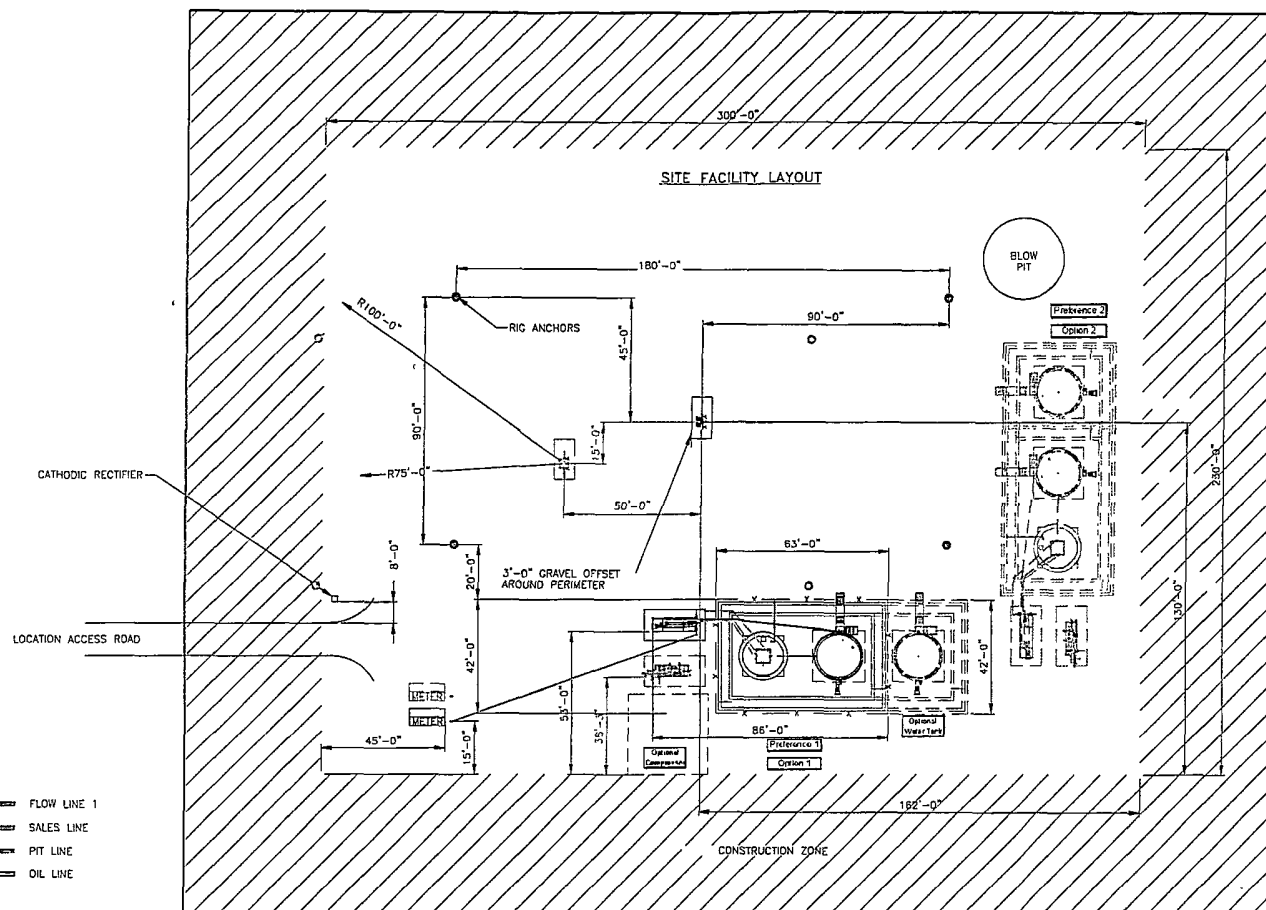
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Yert HZMC #1
Wellbore: Original Wellbore
Design: APD Plan Rev.1 - Submitted

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5343.4	0.00	0.00	5343.4	0.0	0.0	0.00	0.00	0.0	
3	6098.0	90.55	272.57	5820.8	21.6	-481.6	12.00	272.57	482.0	
	411809.4	90.55	272.57	5766.0	277.4	-6187.0	0.00	0.00	6193.3	YERT HZMC 1H - BHL



SHEET 3 3/14/2012 12:26:55 PM, gseeds



- FLOW LINE 1
- SALES LINE
- PIT LINE
- OIL LINE

SEE SHEET 3 & 4 FOR PIPING DETAILS
ALL UNDERGROUND PIPE IS TO BE BURIED A MIN OF 3'-0" TOP

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS		ConocoPhillips		CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT						
										DISCIPLINE	REVIEWED	DATE	NO	DESCRIPTION									
										PROCESS						SAN JUAN BUSINESS UNIT	CLIENT No	CLIENT APPR	APPR DATE	SHEET No 1 OF 5			
										MECHANICAL							SCALE, NONE	CREATION DATE, 5/20/07					
										PIPING													
										ELECTRICAL													
										I & C							DRAWN BY		SCALE, NONE		CREATION DATE, 6/20/07		
										CIVIL/STRUCTURAL													
										PROJECT													
DESCRIPTION										DATE		BY		CHK'D		DNG		DSC					

gseeds, S:\gsd\gseeds EEF100\STD PRJ 0050 ARCHIVES\GES_hp3phase-REV1.dwg, 03/14/2012 - 12:26pm

CONOCOPHILLIPS COMPANY

YERT HZMC #1H
1265' FNL & 2335' FEL
LOCATED IN THE NW/4 NE/4 OF SECTION 31,
T29N, R9W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM BLOOMFIELD POST OFFICE, TRAVEL EAST TO HWY 64 AND HWY 550 SOUTH.
- 2) TRAVEL HWY 550 SOUTH 1.0 MILE TO CR 4990.
- 3) TURN LEFT AND TRAVEL CR 4990 FOR 9.6 MILES TO END OF PAVEMENT AND CONTINUE FOR 0.5 MILES.
- 4) TURN RIGHT AND GO 0.4 MILES TO "Y" INTERSECTION.
- 5) TURN RIGHT AND TRAVEL 0.8 MILES TO "Y" INTERSECTION.
- 6) TURN LEFT AND TRAVEL 0.4 MILES TO EXISTING LOCATION ON LEFT.

WELL FLAG LOCATED AT LAT. 36.68594° N, LONG. 107.82165° W (NAD 83).

JOB No.: COPC463
DATE: 04/10/12



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

BOPE & Choke Manifold Schematic

