

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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 October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-40170	Pool Code 60660	Pool Name Turkey Track Bone Spring
Property Code 306367	Property Name CONOCO "10" STATE	Well Number 3H
OCRID No. 16696	Operator Name OXY USA INC.	Elevation 3378.5'

Surface Location

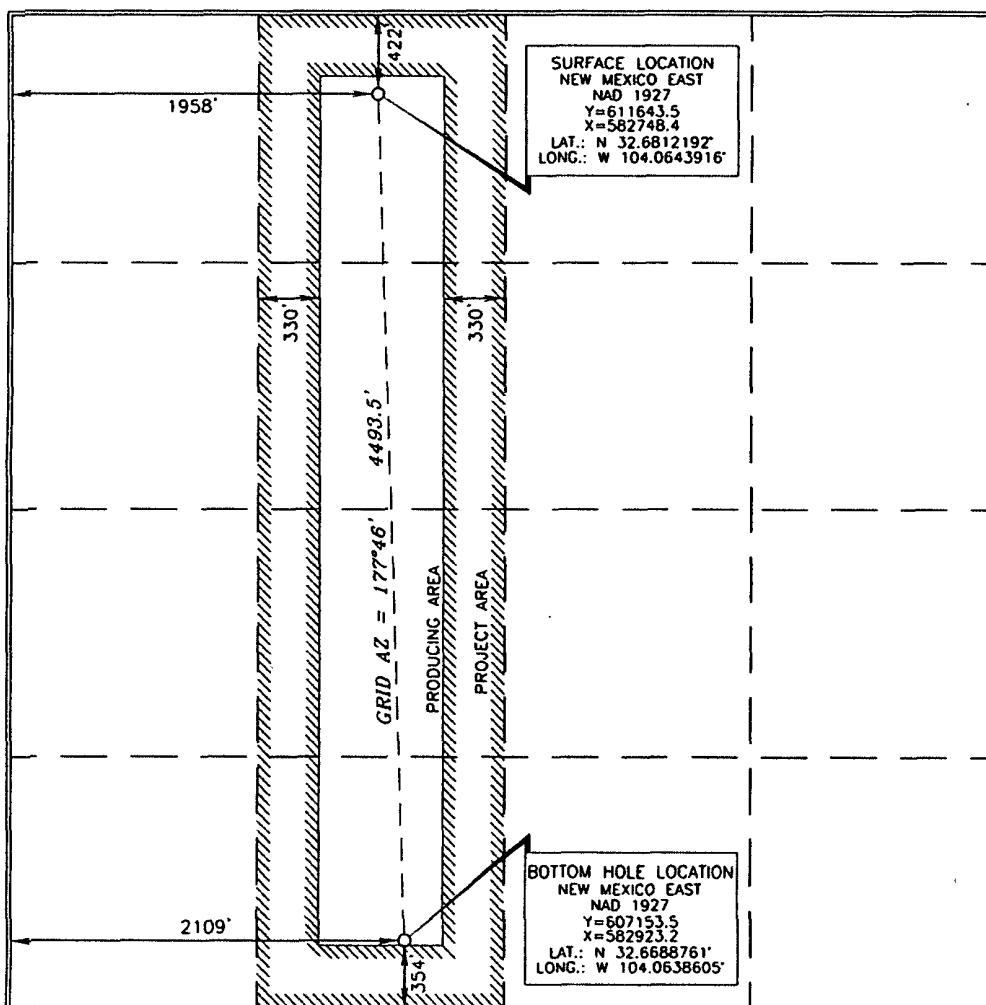
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	10	19 SOUTH	29 EAST, N.M.P.M.		422'	NORTH	1958'	WEST	EDDY

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
N	10	19 SOUTH	29 EAST, N.M.P.M.		354'	SOUTH	2109'	WEST	EDDY

Dedicated Acres 160	Joint or Infill N	Consolidation Code	Order No.
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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.



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.

[Signature] 4/13/12
Signature Date

David Stewart - Reg. Adv.
Printed Name

SURVEYOR CERTIFICATION

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

[Signature] 15079
Date of Survey

[Signature] 15079
Signature and Seal of Professional Surveyor

[Signature] 3/10/12
Certificate Number 15079

Operator Name/Number:	OXY USA Inc.	16696
Lease Name/Number:	Conoco 10 State #3H	State Lease No. BO-8096 - KO-6850
Pool Name/Number:	Turkey Track Bone Spring	306367
Surface Location:	422 FNL 1958 FWL C Sec 10 T19S R29E	60660
Bottom Hole Location:	354 FSL 2109 FWL N Sec 10 T19S R29E	

C-102 Plats: 10/7/11 3/8/12 3/8/12 Elevation: 3378.5' GL

Proposed TD: 7910' TVD 12058' TMD
 SL - Lat:32.6812192 Long:104.0643916 X=582748.4 Y=611643.5 NAD - 1927
 BH - Lat:32.6688761 Long: 104.0638605 X=582923.2 Y=607153.5 NAD - 1927

Casing Program:

Hole Size	Interval	OD Csg	Weight	Collar	Grade	Condition	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17-1/2"	305'	13-3/8"	48	ST&C	H-40	New	7.5	16.84	21.99
				Hole filled with 8.9# Mud			770#	1730#	
12-1/4"	3200'	9-5/8"	40	LT&C	J-55	New	1.91	2.94	4.06
				Hole filled with 10.0# Mud			2570#	3950#	
8-3/4"	12058'	5-1/2"	17	LT&C	N-80	New	2.29	2.82	1.7
				Hole filled with 9.2# Mud			6280#	7740#	

Collapse and burst loads calculated using Stress Check with anticipated loads

Cement Program:

- 13-3/8" Surface Circulate cement to surface w/ 430sx PP cmt w/ 2% CaCl₂, 14.8ppg 1.35 yield 1400# 24hr CS 150% Excess
- 9-5/8" Intermediate Circulate cement to surface w/ 910sx HES light PP cmt w/ 5% Salt + 5#/sx Kol-Seal + .5% Halad-344 + 1% CaCl₂ + .125#/sx Poly-E-Flake, 12.9ppg 1.87 yield 840# 24hr CS 125% Excess followed by 350sx PP cmt w/ .5% WellLife-734, 14.8ppg 1.33 yield 1343# 24hr CS 125% Excess
- 5-1/2" Production Cement w/ 770sx IFH cmt w/ 5#/sx Kol-Seal + .5% Halad R-322 + .3% HR-601, 11.9ppg 2.49 yield 390# 24hr CS 75% Excess followed by 970sx Super H cmt w/ 0.5 Halad 344 + 3#/sx salt + 0.4% CFR 3 + 5#/sx Kol Seal + .3% HR-601, 13.2ppg 1.68 yield 1515# 24hr CS 50% Excess. Calc TOC 2700'

Proposed Mud Circulation System:

Depth	Mud Wt. ppg	Visc sec	Fluid Loss	Type System
0 - 305'	8.4-8.9	32-34	NC	Fresh Water/Spud Mud
305 - 3200'	9.8-10.0	28-29	NC	Brine Water
3200 - 7200'	8.6-8.8	28-29	NC	Fresh Water
7200 - TD	9.0-9.2	50-50	8-15	LSND

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times.

BOP Program:

Surface None
 Intermediate/Production 13-5/8" 10M two ram stack w/ 5M annular preventer, 10M Choke Manifold

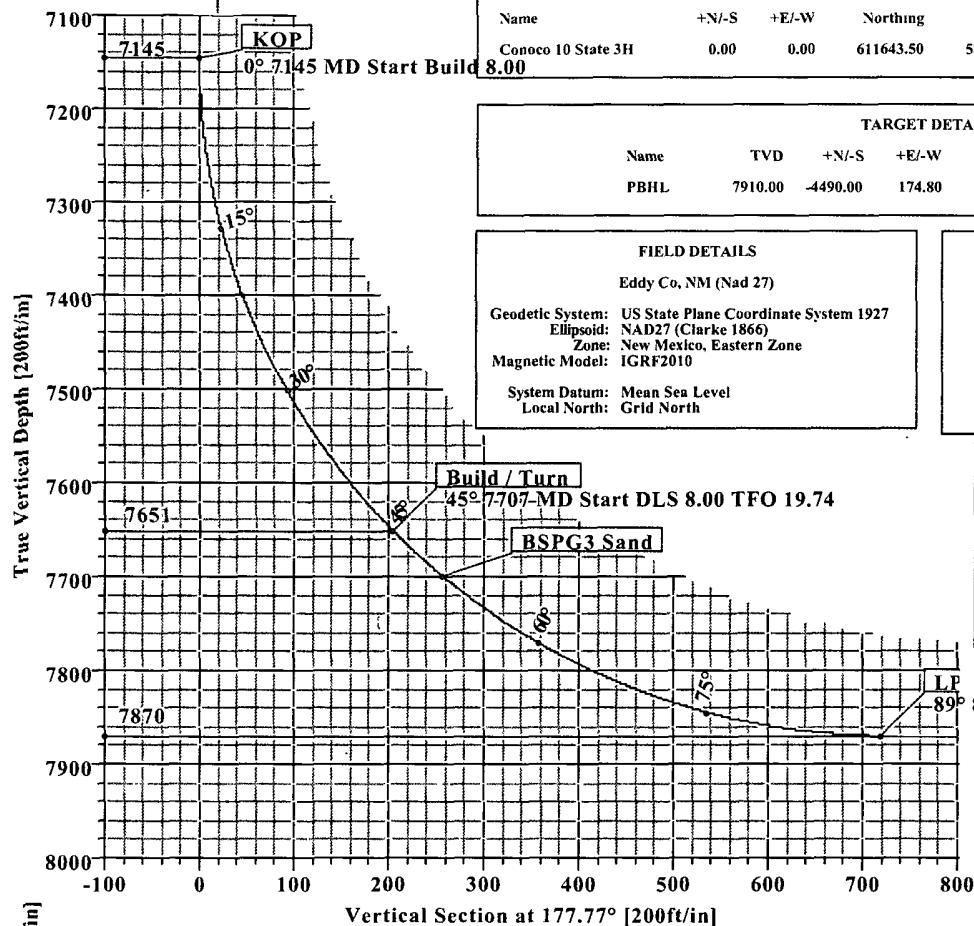
Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

Geological Marker	Depth	Type	Source
a. Rustler	280'	Formation	Drilling
b. Top Salt	304'	Formation	IHS
c. Bottom Salt	985'	Formation	Drilling
d. Queen	2128'	Oil/Gas	IHS
e. Grayburg	2581'	Oil/Gas	IHS
f. San Andres	2997'	Oil/Gas	IHS
g. Delaware	3010'	Oil/Gas	Drilling
h. Bone Springs	4130'	Oil/Gas	Drilling
i. 1st Bone Spring	6960'	Oil/Gas	Drilling
j. 2nd Bone Springs	7675'	Oil/Gas	Drilling



Conoco 10 State Com 3H Eddy Co, NM

KB ELEV: 3402.50
GL ELEV: 3378.50



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	7144.81	0.00	0.00	7144.81	0.00	0.00	0.00	0.00	0.00	
3	7707.31	45.00	165.00	7651.24	-202.62	54.29	8.00	165.00	204.58	
4	8283.68	89.39	179.09	7870.00	-715.57	114.91	8.00	19.74	719.50	
5	12058.79	89.39	179.09	7910.00	-4490.00	174.80	0.00	0.00	4493.40	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Conoco 10 State 3H	0.00	0.00	611643.50	582748.40	32°40'52.389N	104°03'51.810W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	7910.00	-4490.00	174.80	607153.50	582923.20	Point

FIELD DETAILS

Eddy Co, NM (Nad 27)

Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010

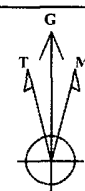
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

Conoco 10 State 3H

Site Centre Northing: 611643.50
Easting: 582748.40

Ground Level: 3378.50
Positional Uncertainty: 0.00
Convergence: 0.15



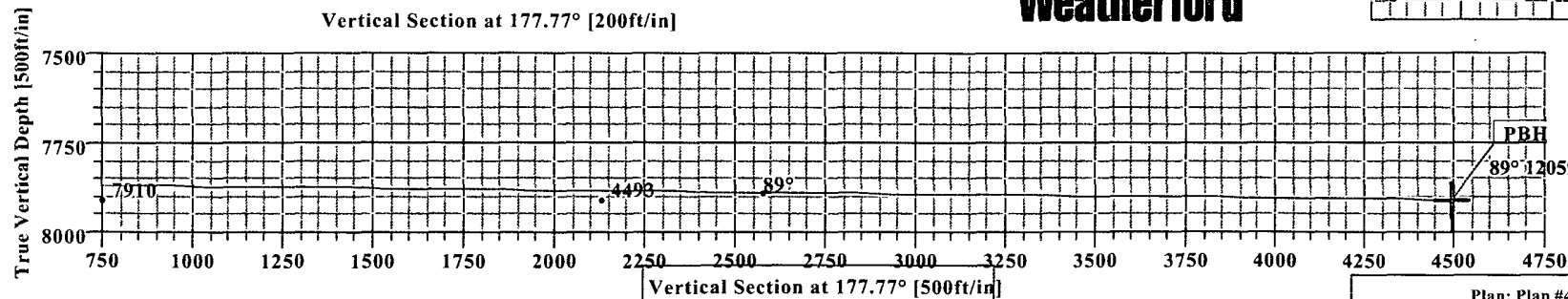
Azimuths to Grid North
True North: -0.15°
Magnetic North: 7.59°

Magnetic Field
Strength: 48766nT
Dip Angle: 60.50°
Date: 6/1/2012
Model: IGRF2010

Total Correction to Grid North: 7.59°



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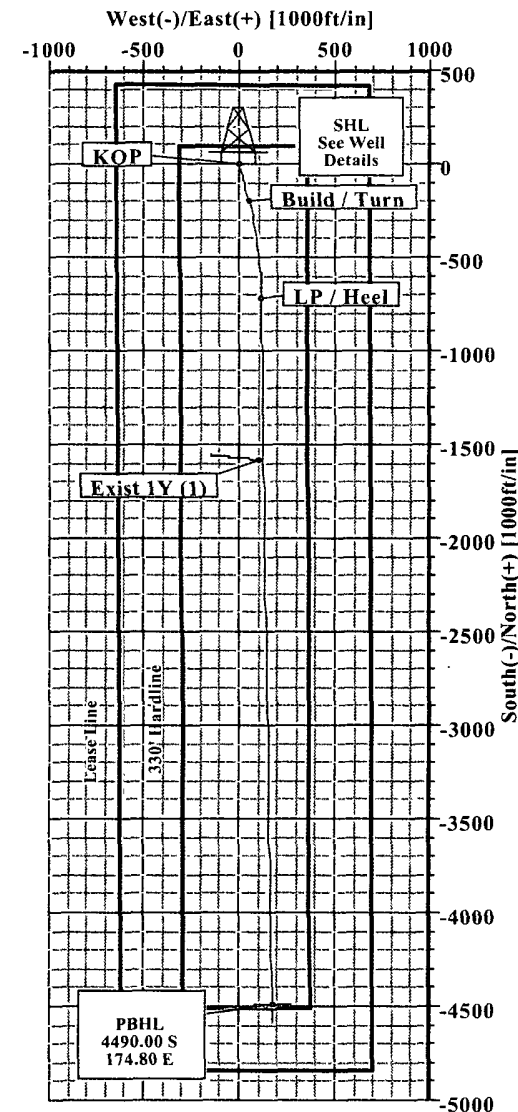


LEGEND
Exist 1Y (1)
Plan #4

Plan: Plan #4 (Conoco 10 State 3H/1)

Created By: Patrick Rudolph

Date: 3/2/2012





Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 3/1/2012	Time: 11:39:26	Page: 1
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference: Well: Conoco 10 State 3H, Grid North		
Site: Conoco 10 State 3H	Vertical (TVD) Reference: SITE: 3402.5		
Well: Conoco 10 State 3H	Section (VS) Reference: Well: (0.00N, 0.00E, 177.77Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Plan: Plan #4	Date Composed: 3/1/2012
Principal: Yes	Version: 1
	Tied-to: From Surface

Field: Eddy Co, NM (Nad 27)	
Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site:		Conoco 10 State 3H				
Site Position:		Northing:	611643.50	ft	Latitude:	32 40 52.389 N
From:	Map	Easting:	582748.40	ft	Longitude:	104 3 51.810 W
Position Uncertainty:			0.00	ft	North Reference:	Grid
Ground Level:			3378.50	ft	Grid Convergence:	0.15 deg

Well: Conoco 10 State 3H	Slot Name:
Well Position: +N/-S 0.00 ft	Latitude: 32 40 52.389 N
+E/-W 0.00 ft	Longitude: 104 3 51.810 W
Position Uncertainty: 0.00 ft	

Wellpath: 1		Drilled From: Surface	
Current Datum: SITE	Height 3402.50 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 6/1/2012		Above System Datum: Mean Sea Level	
Field Strength: 48766 nT		Declination: 7.73 deg	
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 60.50 deg	
ft	ft	+E/-W	Direction
	ft	ft	deg
0.00	0.00	0.00	177.77

Plan Section Information

MD	Incl	Azim	TVD	+N/-S	+E/-W	DES	Build	Turn	TFO	Target
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7144.81	0.00	0.00	7144.81	0.00	0.00	0.00	0.00	0.00	0.00	
7707.31	45.00	165.00	7651.24	-202.62	54.29	8.00	8.00	0.00	165.00	
8283.68	89.39	179.09	7870.00	-715.57	114.91	8.00	7.70	2.44	19.74	
12058.79	89.39	179.09	7910.00	-4490.00	174.80	0.00	0.00	0.00	0.00	PBHL

Survey

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
7100.00	0.00	0.00	7100.00	0.00	0.00	0.00	0.00	611643.50	582748.40	
7144.81	0.00	0.00	7144.81	0.00	0.00	0.00	0.00	611643.50	582748.40	KOP
7150.00	0.42	165.00	7150.00	-0.02	0.00	0.02	8.00	611643.48	582748.40	
7200.00	4.42	165.00	7199.95	-2.05	0.55	2.07	8.00	611641.45	582748.95	
7250.00	8.42	165.00	7249.62	-7.45	2.00	7.52	8.00	611636.05	582750.40	
7300.00	12.42	165.00	7298.79	-16.18	4.33	16.33	8.00	611627.32	582752.73	
7350.00	16.42	165.00	7347.20	-28.20	7.56	28.47	8.00	611615.30	582755.96	
7400.00	20.42	165.00	7394.63	-43.45	11.64	43.87	8.00	611600.05	582760.04	
7450.00	24.42	165.00	7440.85	-61.86	16.58	62.46	8.00	611581.64	582764.98	
7500.00	28.42	165.00	7485.62	-83.35	22.33	84.15	8.00	611560.15	582770.73	
7550.00	32.42	165.00	7528.73	-107.79	28.88	108.83	8.00	611535.71	582777.28	
7600.00	36.42	165.00	7569.97	-135.08	36.20	136.39	8.00	611508.42	582784.60	
7650.00	40.42	165.00	7609.14	-165.09	44.23	166.68	8.00	611478.41	582792.63	
7700.00	44.42	165.00	7646.04	-197.65	52.96	199.57	8.00	611445.85	582801.36	
7707.31	45.00	165.00	7651.24	-202.62	54.29	204.58	8.00	611440.88	582802.69	Build / Turn
7750.00	48.23	166.55	7680.56	-232.69	61.90	234.92	8.00	611410.81	582810.30	



Weatherford International Ltd.

WFT Plan Report - X & Y's


Weatherford

Company: Occidental Permian Ltd.	Date: 3/1/2012	Time: 11:39:26	Page: 2
Field: Eddy Co. NM (Nad 27)	Co-ordinate(NE) Reference: Well: Conoco 10 State 3H, Grid North		
Site: Conoco 10 State 3H	Vertical (TVD) Reference: SITE 3402.5		
Well: Conoco 10 State 3H	Section (VS) Reference: Well (0.00N,0.00E,177.77Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
7779.85	50.49	167.54	7700.00	-254.76	66.98	257.18	8.00	611388.74	582815.38	BSPG3 Sand
7800.00	52.03	168.17	7712.61	-270.13	70.29	272.66	8.00	611373.37	582818.69	
7850.00	55.85	169.63	7742.04	-309.78	78.05	312.59	8.00	611333.72	582826.45	
7900.00	59.68	170.97	7768.70	-351.47	85.16	354.51	8.00	611292.03	582833.56	
7950.00	63.53	172.21	7792.47	-394.97	91.59	398.24	8.00	611248.53	582839.99	
8000.00	67.39	173.36	7813.23	-440.09	97.29	443.54	8.00	611203.41	582845.69	
8050.00	71.26	174.45	7830.88	-486.59	102.25	490.20	8.00	611156.91	582850.65	
8100.00	75.13	175.50	7845.33	-534.27	106.44	538.00	8.00	611109.23	582854.84	
8150.00	79.01	176.50	7856.52	-582.87	109.84	586.70	8.00	611060.63	582858.24	
8200.00	82.89	177.48	7864.38	-632.17	112.42	636.07	8.00	611011.33	582860.82	
8250.00	86.78	178.45	7868.88	-681.93	114.19	685.85	8.00	610961.57	582862.59	
8283.68	89.39	179.09	7870.00	-715.57	114.91	719.50	8.00	610927.93	582863.31	
8300.00	89.39	179.09	7870.18	-731.89	115.17	735.82	0.00	610911.61	582863.57	LP / Heel
8400.00	89.39	179.09	7871.24	-831.87	116.76	835.79	0.00	610811.63	582865.16	
8500.00	89.39	179.09	7872.30	-931.86	118.34	935.76	0.00	610711.64	582866.74	
8600.00	89.39	179.09	7873.36	-1031.84	119.93	1035.72	0.00	610611.66	582868.33	
8700.00	89.39	179.09	7874.41	-1131.82	121.52	1135.69	0.00	610511.68	582869.92	
8800.00	89.39	179.09	7875.47	-1231.80	123.10	1235.66	0.00	610411.70	582871.50	
8900.00	89.39	179.09	7876.53	-1331.78	124.69	1335.63	0.00	610311.72	582873.09	
9000.00	89.39	179.09	7877.59	-1431.77	126.28	1435.59	0.00	610211.73	582874.68	
9100.00	89.39	179.09	7878.65	-1531.75	127.86	1535.56	0.00	610111.75	582876.26	
9200.00	89.39	179.09	7879.71	-1631.73	129.45	1635.53	0.00	610011.77	582877.85	
9300.00	89.39	179.09	7880.77	-1731.71	131.04	1735.50	0.00	609911.79	582879.44	
9400.00	89.39	179.09	7881.83	-1831.69	132.62	1835.47	0.00	609811.81	582881.02	
9500.00	89.39	179.09	7882.89	-1931.67	134.21	1935.43	0.00	609711.83	582882.61	
9600.00	89.39	179.09	7883.95	-2031.66	135.79	2035.40	0.00	609611.84	582884.19	
9700.00	89.39	179.09	7885.01	-2131.64	137.38	2135.37	0.00	609511.86	582885.78	
9800.00	89.39	179.09	7886.07	-2231.62	138.97	2235.34	0.00	609411.88	582887.37	
9900.00	89.39	179.09	7887.13	-2331.60	140.55	2335.31	0.00	609311.90	582888.95	
10000.00	89.39	179.09	7888.19	-2431.58	142.14	2435.27	0.00	609211.92	582890.54	
10100.00	89.39	179.09	7889.25	-2531.57	143.73	2535.24	0.00	609111.93	582892.13	
10200.00	89.39	179.09	7890.31	-2631.55	145.31	2635.21	0.00	609011.95	582893.71	
10300.00	89.39	179.09	7891.37	-2731.53	146.90	2735.18	0.00	608911.97	582895.30	
10400.00	89.39	179.09	7892.43	-2831.51	148.49	2835.14	0.00	608811.99	582896.89	
10500.00	89.39	179.09	7893.49	-2931.49	150.07	2935.11	0.00	608712.01	582898.47	
10600.00	89.39	179.09	7894.54	-3031.47	151.66	3035.08	0.00	608612.03	582900.06	
10700.00	89.39	179.09	7895.60	-3131.46	153.24	3135.05	0.00	608512.04	582901.64	
10800.00	89.39	179.09	7896.66	-3231.44	154.83	3235.02	0.00	608412.06	582903.23	
10900.00	89.39	179.09	7897.72	-3331.42	156.42	3334.98	0.00	608312.08	582904.82	
11000.00	89.39	179.09	7898.78	-3431.40	158.00	3434.95	0.00	608212.10	582906.40	
11100.00	89.39	179.09	7899.84	-3531.38	159.59	3534.92	0.00	608112.12	582907.99	
11200.00	89.39	179.09	7900.90	-3631.37	161.18	3634.89	0.00	608012.13	582909.58	
11300.00	89.39	179.09	7901.96	-3731.35	162.76	3734.85	0.00	607912.15	582911.16	
11400.00	89.39	179.09	7903.02	-3831.33	164.35	3834.82	0.00	607812.17	582912.75	
11500.00	89.39	179.09	7904.08	-3931.31	165.94	3934.79	0.00	607712.19	582914.34	
11600.00	89.39	179.09	7905.14	-4031.29	167.52	4034.76	0.00	607612.21	582915.92	
11700.00	89.39	179.09	7906.20	-4131.27	169.11	4134.73	0.00	607512.23	582917.51	
11800.00	89.39	179.09	7907.26	-4231.26	170.69	4234.69	0.00	607412.24	582919.09	
11900.00	89.39	179.09	7908.32	-4331.24	172.28	4334.66	0.00	607312.26	582920.68	
12000.00	89.39	179.09	7909.38	-4431.22	173.87	4434.63	0.00	607212.28	582922.27	
12058.79	89.39	179.09	7910.00	-4490.00	174.80	4493.40	0.00	607153.50	582923.20	PBHL



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company:	Occidental Permian Ltd.	Date:	3/1/2012	Time:	11:39:26	Page:	3
Field:	Eddy Co., NM (Nad 27)	Co-ordinate(NE) Reference:	Well: Conoco 10 State 3H. Grid: North				
Site:	Conoco 10 State 3H	Vertical (TVD) Reference:	SITE 3402.5				
Well:	Conoco 10 State 3H	Section (VS) Reference:	Well (0.00N,0.00E,177.77Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature			Db:	Sybase

Targets

Name	Description	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude			Longitude		
Dip								Deg	Min	Sec	Deg	Min	Sec
			7910.00	-4490.00	174.80	607153.50	582923.20	32	40	7.954 N	104	3	49.898 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
305.00	305.00	0.000	0.000	Sfc Csg
3100.00	3100.00	0.000	0.000	Int Csg

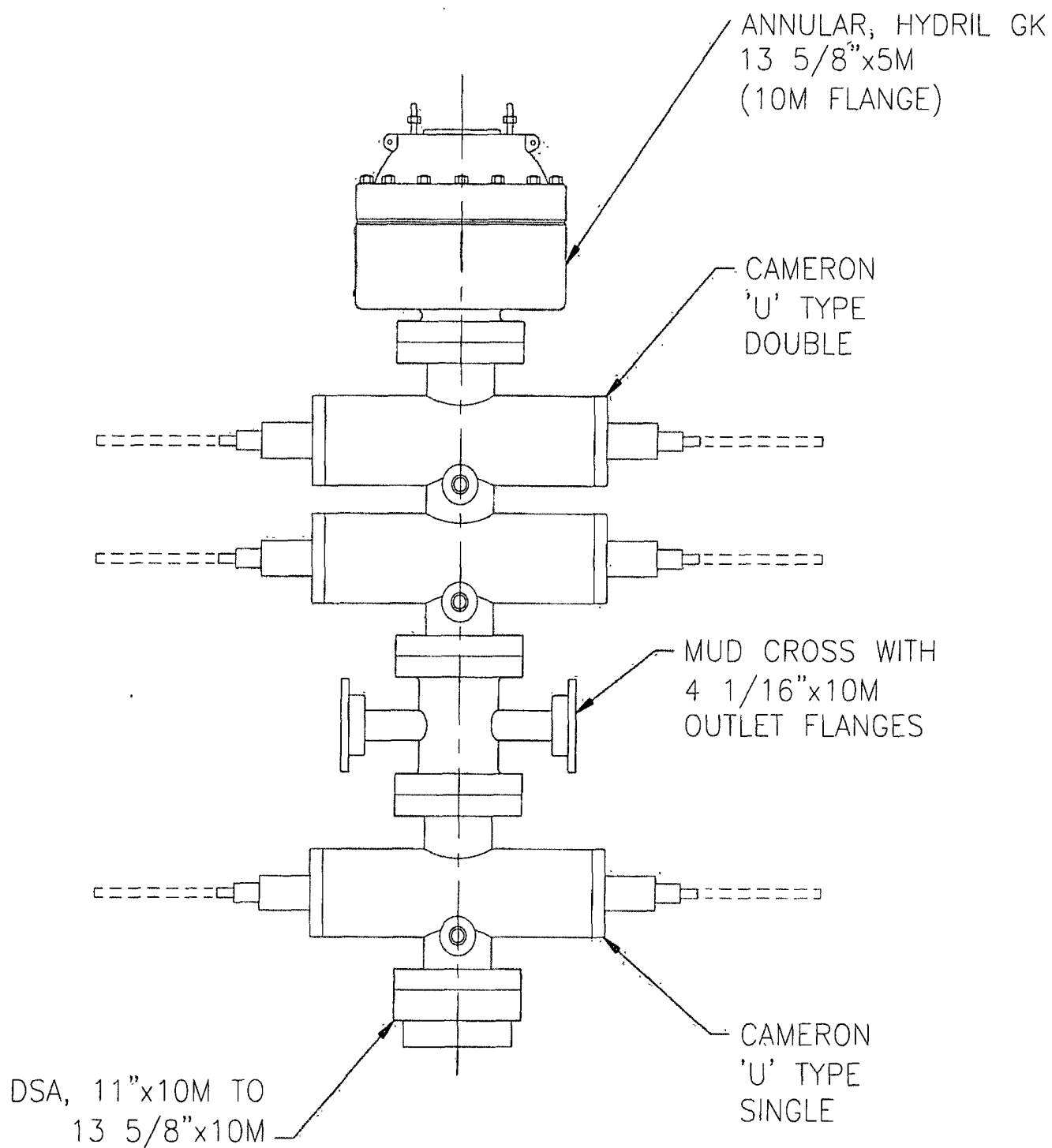
Annotation

MD ft	TVD ft	
7144.81	7144.81	KOP
7707.31	7651.24	Build / Turn
8283.68	7870.00	LP / Heel
12058.79	7910.00	PBHL / Toe

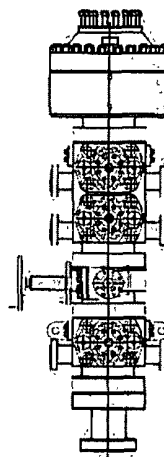
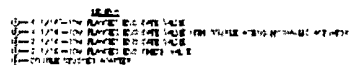
Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
985.00	985.00	Base Salt		0.00	0.00
3000.00	3000.00	Base Anhydrite		0.00	0.00
4130.00	4130.00	Bone Spring Limestone		0.00	0.00
6960.00	6960.00	BSPG1 Sand		0.00	0.00
7090.00	7090.00	BSPG2 Limestone		0.00	0.00
7779.85	7700.00	BSPG3 Sand		0.00	0.00
	0.00	BSPG2 Target Sand		0.00	0.00

BOP Diagram



BOP STACK



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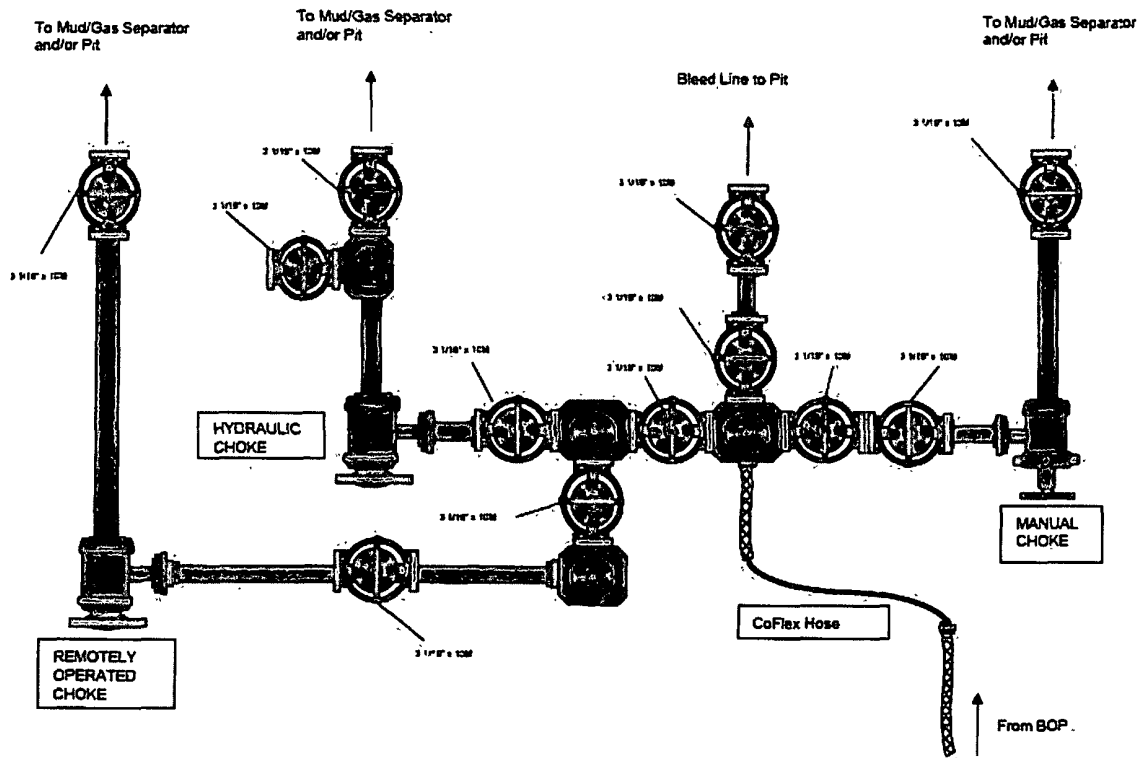
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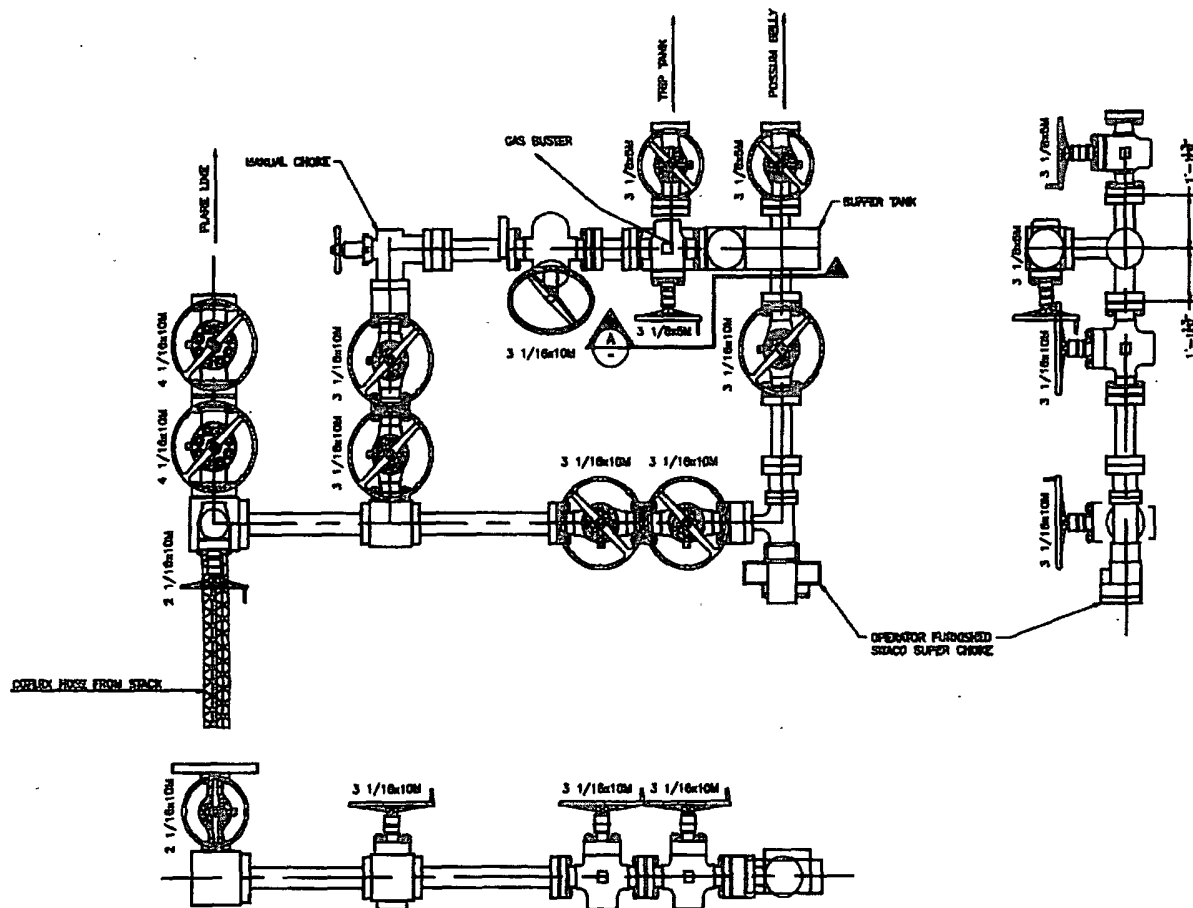
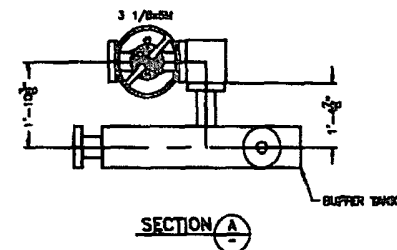
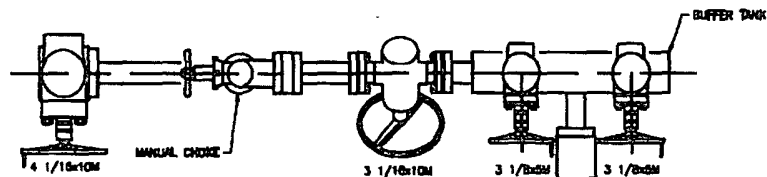

HFI MERRICH & PAYNE
INTERNATIONAL DRILLING CO.

5/27-28 1964 - V. T. K
FLEXK.

[illegible]

10M CHOKE MANIFOLD CONFIGURATION





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REVISIONS				DATE	BY
▲					
▲					
▲					
▲	10/15/02	ADJUST OR TO FIELD CORRECTION ON	REV		
REV	DATE	DESCRIPTION	BY		

HELMERICH & PAYNE INTERNATIONAL DRILLING CO.		CHOKE MANIFOLD	
DRAFTER: H&P		PROJECT: FLE0003	
DRAWN: MTS	DATE: 2-28-02	SCALE: 1/4"=1'	REV: A
SHEET: 1 OF 1		216-P1-05	