

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION

ARTESIA DISTRICT
OCD Artesia

AUG 28 2014

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		7. If Unit or CA/Agreement, Name and/or No. 891000326X
2. Name of Operator BOPCO LP		8. Well Name and No. BIG EDDY UNIT D14 264H
3a. Address P O BOX 2760 MIDLAND, TX 79702		9. API Well No. 30-015-42478-00-X1
3b. Phone No. (include area code) Ph: 432-221-7341		10. Field and Pool, or Exploratory WILLIAMS SINK
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 5 T20S R31E Lot 2 0660FNL 2220FEL 32.362767 N Lat, 103.531527 W Lon		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompletable horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Accepted for record

NMOCD

7" to 8,410'

26 ppf HCP-110 BTC

4-1/2" to 13,300'

11.6 ppf HCP-110 BTC

per e-mail

BEU D14 #264H
Production Casing Sundry

BOPCO, LP respectfully requests to alter the planned directional plan and the 5-1/2", 17 ppf, HCP-110, BTC production casing string. A 4-1/2", 11.60 ppf, HCP-110, BTC by 7", 26 ppf, HCP-110, BTC tapered string will be ran from TD of the well to surface. A DV tool will be placed at approximately 5,000' and the 4-1/2" by 7" casing string will be cemented in two stages. Top of cement of stage 2 will be placed at least 50' above the top of the Capitan Reef at 2,898'. The updated directional plan is attached. Casing safety factors are as follows:

4-1/2", 11.60 ppf, HCP-110, BTC - Collapse ? 2.05, Burst ? 2.33, Tension ? 4.46

COAs from EC# 254507 still stand. 2nd stage DV tool will need cement

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #257890 verified by the BLM Well Information System

For BOPCO LP, sent to the Carlsbad

Committed to AFMSS for processing by JENNIFER MASON on 08/22/2014 (14JAM0392SE)

Name (Printed/Typed) JEREMY BRADEN

Title ENGINEERING ASSISTANT

Signature (Electronic Submission)

Date 08/21/2014

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

AUG 22 2014

Approved By

Title

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 representations as to any matter within its jurisdiction.

Additional data for EC transaction #257890 that would not fit on the form

32. Additional remarks, continued

77, 26 ppf, HCP-110, BTC ? Collapse ? 1.81, Burst ? 2.18, Tension ? 3.78

Updated cement volumes and slurries are in the attached table.

BEU DI4 #264H

Production Casing Sundry

BOPCO, LP respectfully requests to alter the planned directional plan and the 5-1/2", 17 ppf, HCP-110, BTC production casing string. A 4-1/2", 11.60 ppf, HCP-110, BTC by 7", 26 ppf, HCP-110, BTC tapered string will be ran from TD of the well to surface. A DV tool will be placed at approximately 5,000' and the 4-1/2" by 7" casing string will be cemented in two stages. Top of cement of stage 2 will be placed at least 50' above the top of the Capitan Reef at 2,898'. The updated directional plan is attached. Casing safety factors are as follows:

4-1/2", 11.60 ppf, HCP-110, BTC - Collapse – 2.05, Burst – 2.33, Tension – 4.46

7", 26 ppf, HCP-110, BTC – Collapse – 1.81, Burst – 2.18, Tension – 3.78

Updated cement volumes and slurries are in the below table.

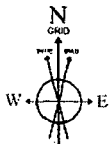
INTERVAL	AMOUNT SXS	FT of FILL	TYPE	GAL/SX	PPG	FT3/SX
PRODUCTION						
Stage 1						
Lead: 5,000'-8,410'	200	3,410	VersaCem + 10% Bentonite + 0.125 pps Poly-E-Flake + 0.5 pps D-Air + 0.1% HR-601	12.8	11.9	2.24
Tail: 8,410'-13,300'	1,870	4,890	VersaCem + 0.5% LAP-1 + 0.3% CFR-3 + 0.1% FWCA + 0.125 pps Poly-E-Flake + 0.5 pps D-Air + 0.2% HR- 601	5.32	14.5	1.21
DV TOOL AT 5,000'						
Stage 2						
Lead: 2,898'-4,500'	290	1,746	VersaCem + 10% Bentonite + 0.125 pps Poly-E-Flake + 0.5 pps D-Air	12.67	11.9	2.23
Tail: 4,500'-5,000'	100	500	Halcm "C" Neat	6.34	14.8	1.33



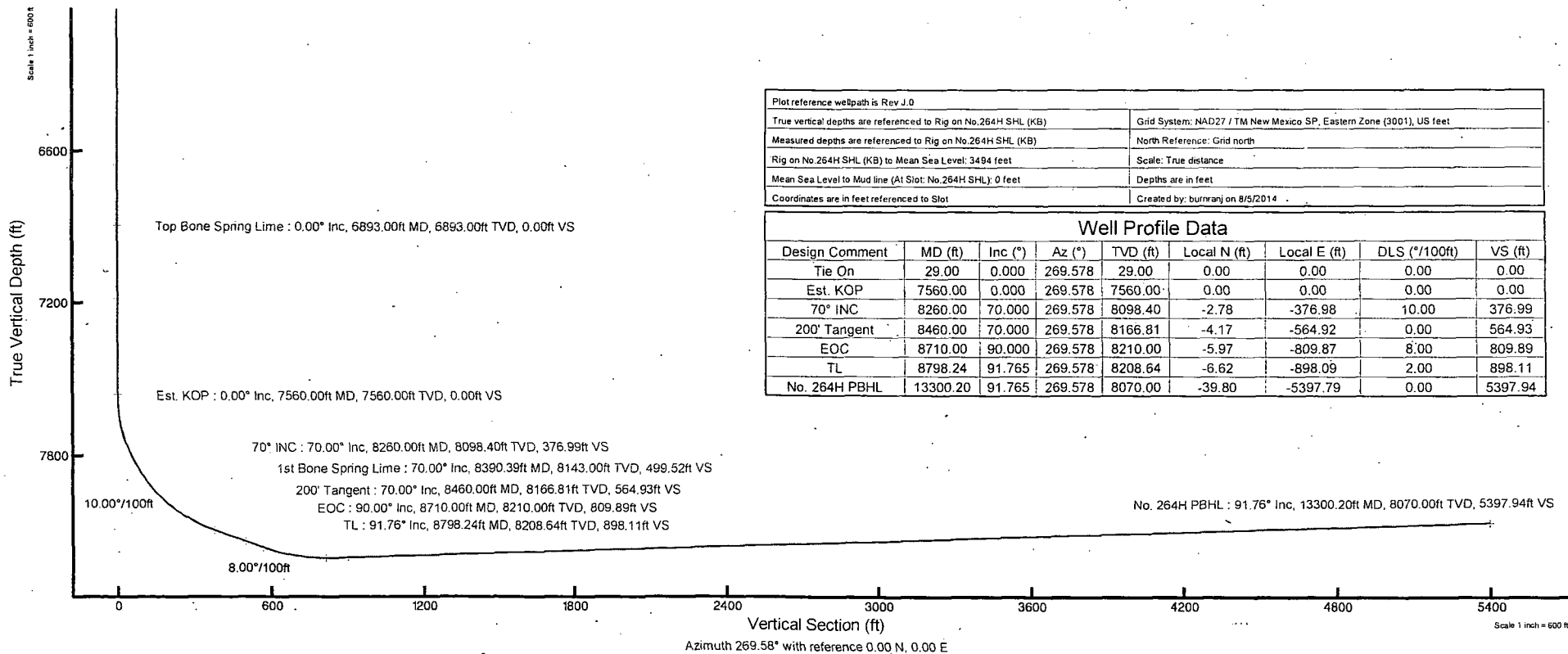
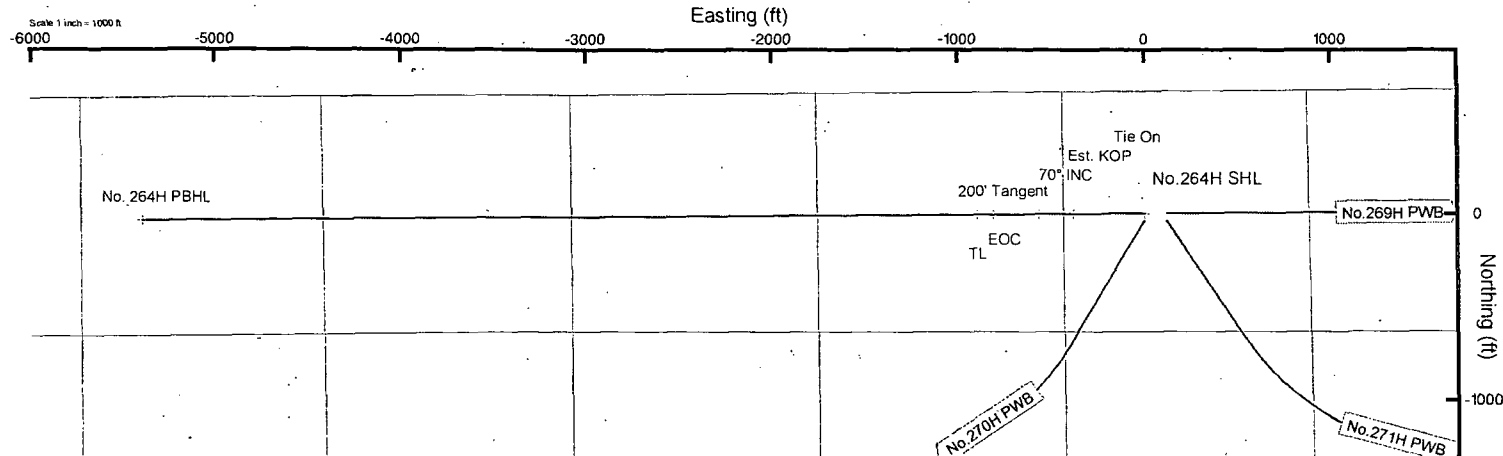
BOPCO, LP

Location: Eddy County, NM
Field: Big Eddy
Facility: Big Eddy Unit DI-4

Slot: No.264H SHL
Well: No.264H
Wellbore: No.264H PWB



BGM (1945.0 to 2016.0) Dip: 60.41° Field: 48464.9 nT
Magnetic North is 7.55 degrees East of True North (at 7/17/2014)
Grid North is 0.24 degrees East of True North
To correct azimuth from True to Grid subtract 0.24 degrees
To correct azimuth from Magnetic to Grid add 7.31 degrees





Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, LP	Slot	No.264H SHL
Area	Eddy County, NM	Well	No.264H
Field	Big Eddy	Wellbore	No.264H PWB
Facility	Big Eddy Unit D1-4		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 4.0.0
North Reference	Grid	User	Burnranj
Scale	0.99993	Report Generated	8/5/2014 at 12:59:27 PM
Convergence at slot	0.24° East	Database/Source file	WA_MIDLAND/C:\Users\burnranj\AppData\Roaming\Well Explorer\temp\BOPCO, LP No.264H SHL (Rev J.0).xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-7.40	-617.24	636646.70	585067.70	32°36'27.619"N	103°53'22.489"W
Facility Reference Pt			637263.90	585075.10	32°36'27.666"N	103°53'15.274"W
Field Reference Pt			610823.03	524402.80	32°26'28.262"N	103°58'26.774"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No.264H SHL (KB) to Facility Vertical Datum	3494.00ft
Horizontal Reference Pt	Slot	Rig on No.264H SHL (KB) to Mean Sea Level	3494.00ft
Vertical Reference Pt	Rig on No.264H SHL (KB)	Rig on No.264H SHL (KB) to Mud Line at Slot (No.264H SHL)	3494.00ft
MD Reference Pt	Rig on No.264H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	269.58°



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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP	Slot	No.264H SHL
Area	Eddy County, NM	Well	No.264H
Field	Big Eddy	Wellbore	No.264H PWB
Facility	Big Eddy Unit DI-4		

WELLPATH DATA (74 stations) * = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	269.578	0.00	0.00	0.00	0.00	0.00	
29.00	0.000	269.578	29.00	0.00	0.00	0.00	0.00	Tie On
582.00†	0.000	269.578	582.00	0.00	0.00	0.00	0.00	Top Rustler Anhydrite
845.00†	0.000	269.578	845.00	0.00	0.00	0.00	0.00	Top Salt
2324.00†	0.000	269.578	2324.00	0.00	0.00	0.00	0.00	Base Salt
2848.00†	0.000	269.578	2848.00	0.00	0.00	0.00	0.00	Top Reef
4083.00†	0.000	269.578	4083.00	0.00	0.00	0.00	0.00	Top del. Mtn. Grp.
6893.00†	0.000	269.578	6893.00	0.00	0.00	0.00	0.00	Top Bone Spring Lime
7560.00	0.000	269.578	7560.00	0.00	0.00	0.00	0.00	Est. KOP
7600.00†	4.000	269.578	7599.97	1.40	-0.01	-1.40	10.00	
7700.00†	14.000	269.578	7698.61	17.02	-0.13	-17.02	10.00	
7800.00†	24.000	269.578	7793.04	49.53	-0.37	-49.53	10.00	
7900.00†	34.000	269.578	7880.39	97.95	-0.72	-97.95	10.00	
8000.00†	44.000	269.578	7958.01	160.81	-1.19	-160.80	10.00	
8100.00†	54.000	269.578	8023.53	236.18	-1.74	-236.18	10.00	
8200.00†	64.000	269.578	8074.97	321.79	-2.37	-321.78	10.00	
8260.00†	70.000	269.578	8098.40	376.99	-2.78	-376.98	10.00	70° INC
8300.00†	70.000	269.578	8112.09	414.58	-3.06	-414.57	0.00	
8390.39†	70.000	269.578	8143.00	499.52	-3.68	-499.51	0.00	1st Bone Spring Lime
8400.00†	70.000	269.578	8146.29	508.55	-3.75	-508.54	0.00	
8460.00†	70.000	269.578	8166.81	564.93	-4.17	-564.92	0.00	200° Tangent
8500.00†	73.200	269.578	8179.43	602.88	-4.45	-602.87	8.00	
8600.00†	81.200	269.578	8201.57	700.32	-5.16	-700.30	8.00	
8700.00†	89.200	269.578	8209.93	799.89	-5.90	-799.87	8.00	
8710.00†	90.000	269.578	8210.00	809.89	-5.97	-809.87	8.00	EOC
8798.24	91.765	269.578	8208.64	898.11	-6.62	-898.09	2.00	TL
8800.00†	91.765	269.578	8208.59	899.87	-6.63	-899.85	0.00	
8900.00†	91.765	269.578	8205.51	999.82	-7.37	-999.80	0.00	
9000.00†	91.765	269.578	8202.43	1099.78	-8.11	-1099.75	0.00	
9100.00†	91.765	269.578	8199.35	1199.73	-8.85	-1199.70	0.00	
9200.00†	91.765	269.578	8196.27	1299.68	-9.58	-1299.65	0.00	
9300.00†	91.765	269.578	8193.19	1399.64	-10.32	-1399.60	0.00	
9400.00†	91.765	269.578	8190.11	1499.59	-11.06	-1499.55	0.00	
9500.00†	91.765	269.578	8187.03	1599.54	-11.79	-1599.50	0.00	
9600.00†	91.765	269.578	8183.95	1699.49	-12.53	-1699.45	0.00	
9700.00†	91.765	269.578	8180.87	1799.45	-13.27	-1799.40	0.00	
9800.00†	91.765	269.578	8177.79	1899.40	-14.00	-1899.35	0.00	
9900.00†	91.765	269.578	8174.71	1999.35	-14.74	-1999.30	0.00	
10000.00†	91.765	269.578	8171.63	2099.30	-15.48	-2099.25	0.00	
10100.00†	91.765	269.578	8168.55	2199.26	-16.22	-2199.20	0.00	
10200.00†	91.765	269.578	8165.47	2299.21	-16.95	-2299.15	0.00	
10300.00†	91.765	269.578	8162.39	2399.16	-17.69	-2399.10	0.00	
10400.00†	91.765	269.578	8159.31	2499.11	-18.43	-2499.05	0.00	
10500.00†	91.765	269.578	8156.23	2599.07	-19.16	-2599.00	0.00	
10600.00†	91.765	269.578	8153.15	2699.02	-19.90	-2698.95	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, LP	Slot	No.264H SHL
Area	Eddy County, NM	Well	No.264H
Field	Big Eddy	Wellbore	No.264H PWB
Facility	Big Eddy Unit D1-4		

WELLPATH DATA (74 stations) = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
10700.00†	91.765	269.578	8150.08	2798.97	-20.64	-2798.90	0.00	
10800.00†	91.765	269.578	8147.00	2898.92	-21.37	-2898.84	0.00	
10900.00†	91.765	269.578	8143.92	2998.88	-22.11	-2998.79	0.00	
10929.74†	91.765	269.578	8143.00	3028.61	-22.33	-3028.52	0.00	1st Bone Spring Lime
11000.00†	91.765	269.578	8140.84	3098.83	-22.85	-3098.74	0.00	
11100.00†	91.765	269.578	8137.76	3198.78	-23.59	-3198.69	0.00	
11200.00†	91.765	269.578	8134.68	3298.73	-24.32	-3298.64	0.00	
11300.00†	91.765	269.578	8131.60	3398.69	-25.06	-3398.59	0.00	
11400.00†	91.765	269.578	8128.52	3498.64	-25.80	-3498.54	0.00	
11500.00†	91.765	269.578	8125.44	3598.59	-26.53	-3598.49	0.00	
11600.00†	91.765	269.578	8122.36	3698.54	-27.27	-3698.44	0.00	
11700.00†	91.765	269.578	8119.28	3798.50	-28.01	-3798.39	0.00	
11800.00†	91.765	269.578	8116.20	3898.45	-28.74	-3898.34	0.00	
11900.00†	91.765	269.578	8113.12	3998.40	-29.48	-3998.29	0.00	
12000.00†	91.765	269.578	8110.04	4098.35	-30.22	-4098.24	0.00	
12100.00†	91.765	269.578	8106.96	4198.31	-30.95	-4198.19	0.00	
12200.00†	91.765	269.578	8103.88	4298.26	-31.69	-4298.14	0.00	
12300.00†	91.765	269.578	8100.80	4398.21	-32.43	-4398.09	0.00	
12400.00†	91.765	269.578	8097.72	4498.16	-33.17	-4498.04	0.00	
12500.00†	91.765	269.578	8094.64	4598.12	-33.90	-4597.99	0.00	
12600.00†	91.765	269.578	8091.56	4698.07	-34.64	-4697.94	0.00	
12700.00†	91.765	269.578	8088.48	4798.02	-35.38	-4797.89	0.00	
12800.00†	91.765	269.578	8085.40	4897.98	-36.11	-4897.84	0.00	
12900.00†	91.765	269.578	8082.32	4997.93	-36.85	-4997.79	0.00	
13000.00†	91.765	269.578	8079.24	5097.88	-37.59	-5097.74	0.00	
13100.00†	91.765	269.578	8076.17	5197.83	-38.32	-5197.69	0.00	
13200.00†	91.765	269.578	8073.09	5297.79	-39.06	-5297.64	0.00	
13300.00†	91.765	269.578	8070.01	5397.74	-39.80	-5397.59	0.00	
13300.20	91.765	269.578	8070.00	5397.94	-39.80	-5397.79	0.00	No. 264H PBHL



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REFERENCE WELLPATH IDENTIFICATION			
Operator	BOPCO, LP	Slot	No.264H SHL
Area	Eddy County, NM	Well	No.264H
Field	Big Eddy	Wellbore	No.264H PWB
Facility	Big Eddy Unit DI-4		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No 264H Rev I	13300.20	8070.00	39.80	-5397.79	631249.30	585027.90	32°36'27.443"N	103°54'23.590"W	point

SURVEY PROGRAM: Ref Wellbore: No.264H PWB Ref Wellpath: Rev J.0				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
29.00	499.00	Generic gyro - northseeking (Standard)		No.264H PWB
499.00	13282.12	NaviTrak (Standard)		No.264H PWB