

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

APPLICATION OF CIMAREX ENERGY CO.
FOR A NON-STANDARD OIL SPACING AND
PRORATION UNIT AND FOR COMPULSORY
POOLING, LEA COUNTY, NEW MEXICO.

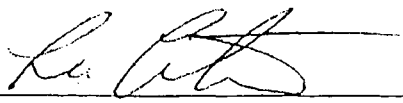
Case No. 14469

AFFIDAVIT OF LEE CATALANO

COUNTY OF MIDLAND)
) ss.
STATE OF TEXAS)

Lee Catalano, being duly sworn upon his oath, deposes and states:

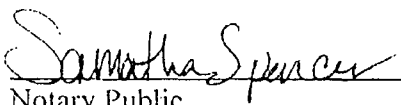
1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am a geologist for Cimarex Energy Co. ("Cimarex").
3. Exhibit A is a structure map on top of the Bone Spring formation. The formation dips to the south. Exhibit A also contains production data from existing, vertical Bone Spring wells.
4. Exhibit B is a cross section which shows the productive interval and stratigraphic target for horizontal Bone Spring wells in the area.
5. Attached as Exhibit C is the horizontal drilling plan for the proposed well. A horizontal wellbore will test a greater reservoir length, increasing the chances for an economic completion.
6. All four quarter-quarter sections in the well unit are prospective in the Bone Spring, and Cimarex anticipates producing reserves from each quarter-quarter section.



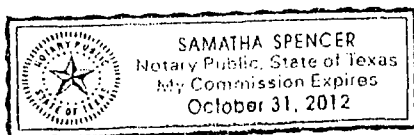
Lee Catalano

SUBSCRIBED AND SWORN TO before me this 10th day of May, 2010 by Lee Catalano.

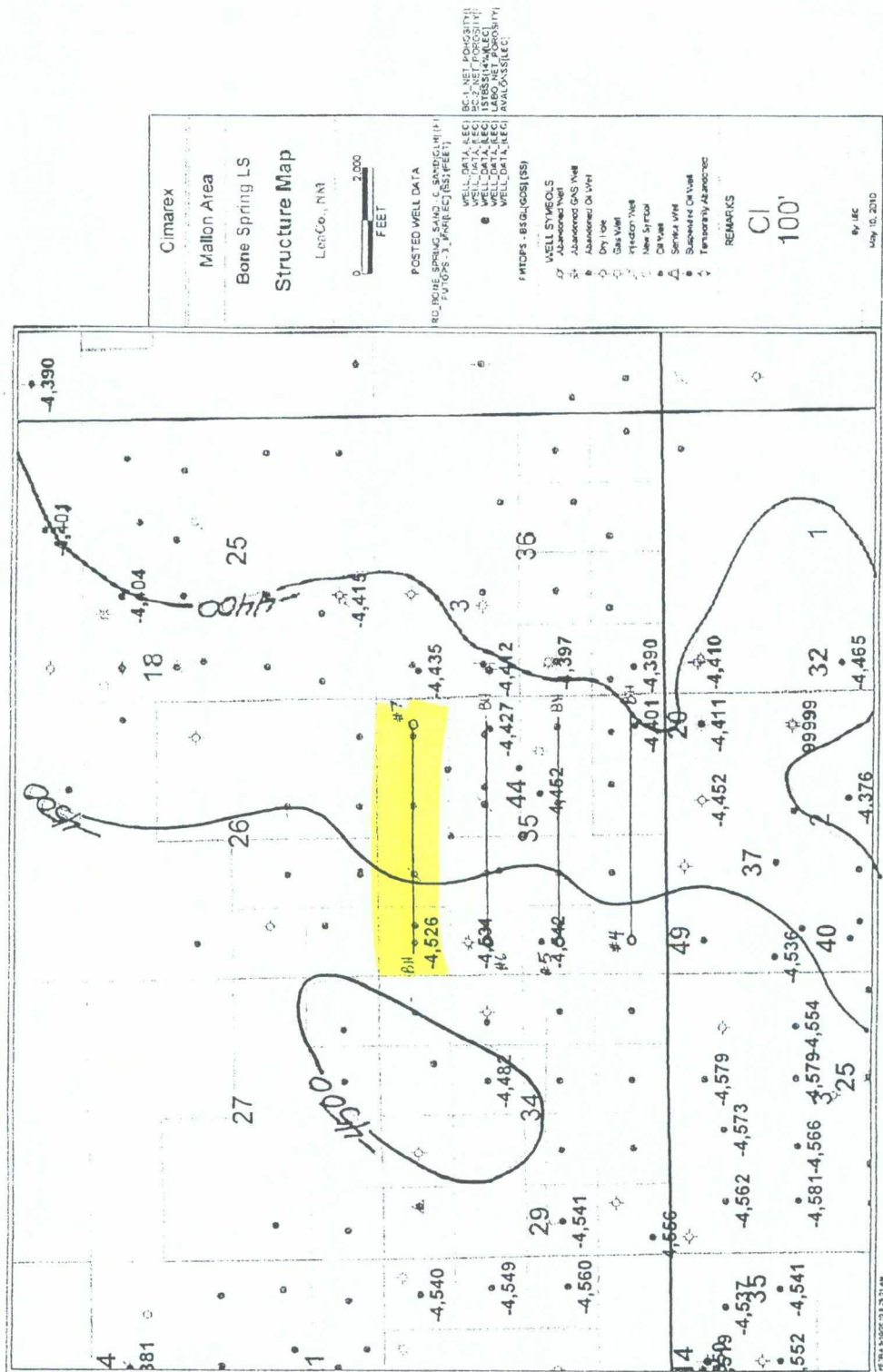
My Commission Expires: October 31, 2012



Notary Public



Oil Conservation Division
Case No. 2
Exhibit No. 2



EXHIBIT

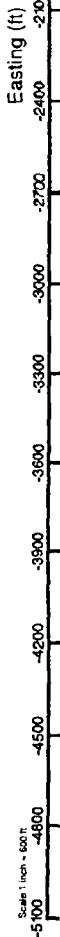
Cimarex Energy Co.

Location: Lea County, NM
Field: (Mallory) Sec 35, T19S, R34E
Facility: Mallory 35 Fed No. 7H



Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVL (ft)	Local N (ft)	Local E (ft)	DLS (%100ft)	VS (ft)
Tie On	0.00	0.000	269.463	0.00	0.00	0.00	0.00	0.00
EST. KOP	10824.00	0.000	269.463	10824.00	0.00	0.00	0.00	0.00
END OF CURVE	11124.02	90.000	269.463	11015.00	-1.79	-190.99	30.00	191.00
No. 7H PBHL	15554.31	90.000	269.463	11015.00	-43.28	-4621.08	0.00	4621.28



EST. KOP : 10824.00ft TVD, 0.00ft N, 0.00ft E

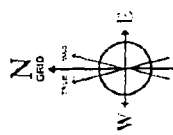
END OF CURVE : 11015.00ft TVD, 1.79ft S, 190.99ft W

No. 7H PNB

No. 7H PBHL : 11015.00ft TVD, 43.28ft S, 4621.08ft W

No. 7H PBHL
660' FNL
330' FWL

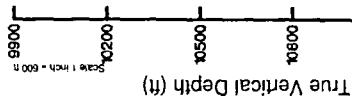
No. 7H SHL
660' FNL
330' FEL



BGM (1945.0 to 2011.0) Dip: 60.62° Field: 49351.3 nT
Magnetic North is 7.64 degrees East of True North (at 10/7/2009)
To correct azimuth from True to Grid subtract 0.44 degrees
To correct azimuth from Magnetic to Grid add 7.41 degrees
For example: if the Magnetic North Azimuth = 90 degs. then the Grid North Azimuth = 90 + 7.41 = 97.41

EXHIBIT

Picture reference well: Mallory 35	Grid System: NAD83 / TM New Mexico State Plane, Eastern Zone (2001) US feet
True vertical depths are referenced to Rig on No. 7H SHL (RT)	North Reference: Grid north
Measured depths are referenced to Rig on No. 7H SHL (RT)	Scale: True distance
Rig on No. 7H SHL (RT) to Mean Sea Level: 3720 feet	Depths are in feet
Mean Sea Level to Mudline (Facility Mallory 35 Fed No. 7H): 3720 feet	Coordinates are in feet referenced to Facility Center
	Created by: Victor Hernandez on 10/7/2009

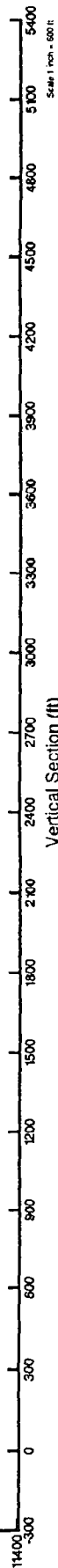


EST. KOP : 0.00° Inc, 10824.00ft MD, 10824.00ft TVD, 0.00ft VS
30.00°/100ft

END OF CURVE : 90.00° Inc, 11124.02ft MD, 11015.00ft TVD, 191.00ft VS

No. 7H PBHL

No. 7H PBHL : 90.00° Inc, 15554.31ft MD, 11015.00ft TVD, 4621.28ft VS



Vertical Section (ft)

Azimuth 269.46° with reference 0.00 N, 0.00 E

Scale 1 inch = 600 ft



Planned Wellpath Report

Prelim_1
Page 1 of 4

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 7H SHL
Area	Lea County, NM	Well	No. 7H
Field	(Mallon) Sec 35, T19S, R34E	Wellbore	No. 7H PWB
Facility	Mallon 35 Fed No. 7H		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.99998	Report Generated	10/7/2009 at 3:38:12 PM
Convergence at slot	0.44° East	Database/Source file	WA_Midland/No. 7H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	790701.80	591047.90	32°37'20.024"N	103°31'24.223"W
Facility Reference Pt			790701.80	591047.90	32°37'20.024"N	103°31'24.223"W
Field Reference Pt			786447.20	587045.00	32°36'40.736"N	103°32'14.318"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 7H SHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 7H SHL (RT) to Mean Sea Level	3720.00ft
Vertical Reference Pt	Rig on No. 7H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 7H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	269.46°



Planned Wellpath Report

Prelim_1
Page 2 of 4



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 7H SHL
Area	Lea County, NM	Well	No. 7H
Field	(Mallon) Sec 35, T19S, R34E	Wellbore	No. 7H PWB
Facility	Mallon 35 Fed No. 7H		

WELLPATH DATA (51 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [serv ft]	Grid North [serv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	269.463	0.00	0.00	0.00	0.00	790701.80	591047.90	32°37'20.024"N	103°31'24.223"W	0.00	Tie On
10824.00	0.000	269.463	10824.00	0.00	0.00	0.00	790701.80	591047.90	32°37'20.024"N	103°31'24.223"W	0.00	EST. KOP
10924.00†	29.998	269.463	10919.49	25.59	-0.24	-25.58	790676.22	591047.66	32°37'20.024"N	103°31'24.522"W	30.00	
11024.00†	59.996	269.463	10989.40	95.49	-0.89	-95.48	790606.32	591047.01	32°37'20.022"N	103°31'25.339"W	30.00	
11124.00†	89.993	269.463	11015.00	190.98	-1.79	-190.97	790510.83	591046.11	32°37'20.021"N	103°31'26.456"W	30.00	
11124.02	90.000	269.463	11015.00	191.00	-1.79	-190.99	790510.81	591046.11	32°37'20.021"N	103°31'26.456"W	30.00	END OF CURVE
11224.00†	90.000	269.463	11015.00	290.98	-2.73	-290.97	790410.84	591045.17	32°37'20.019"N	103°31'27.625"W	0.00	
11324.00†	90.000	269.463	11015.00	390.98	-3.66	-390.96	790310.85	591044.24	32°37'20.017"N	103°31'28.794"W	0.00	
11424.00†	90.000	269.463	11015.00	490.98	-4.60	-490.96	790210.85	591043.30	32°37'20.016"N	103°31'29.963"W	0.00	
11524.00†	90.000	269.463	11015.00	590.98	-5.53	-590.95	790110.86	591042.37	32°37'20.014"N	103°31'31.133"W	0.00	
11624.00†	90.000	269.463	11015.00	690.98	-6.47	-690.95	790010.87	591041.43	32°37'20.012"N	103°31'32.302"W	0.00	
11724.00†	90.000	269.463	11015.00	790.98	-7.41	-790.94	789910.87	591040.49	32°37'20.010"N	103°31'33.471"W	0.00	
11824.00†	90.000	269.463	11015.00	890.98	-8.34	-890.94	789810.88	591039.56	32°37'20.009"N	103°31'34.640"W	0.00	
11924.00†	90.000	269.463	11015.00	990.98	-9.28	-990.93	789710.89	591038.62	32°37'20.007"N	103°31'35.809"W	0.00	
12024.00†	90.000	269.463	11015.00	1090.98	-10.22	-1090.93	789610.89	591037.68	32°37'20.005"N	103°31'36.978"W	0.00	
12124.00†	90.000	269.463	11015.00	1190.98	-11.15	-1190.93	789510.90	591036.75	32°37'20.003"N	103°31'38.148"W	0.00	
12224.00†	90.000	269.463	11015.00	1290.98	-12.09	-1290.92	789410.91	591035.81	32°37'20.002"N	103°31'39.317"W	0.00	
12324.00†	90.000	269.463	11015.00	1390.98	-13.03	-1390.92	789310.91	591034.87	32°37'20.000"N	103°31'40.486"W	0.00	
12424.00†	90.000	269.463	11015.00	1490.98	-13.96	-1490.91	789210.92	591033.94	32°37'19.998"N	103°31'41.655"W	0.00	
12524.00†	90.000	269.463	11015.00	1590.98	-14.90	-1590.91	789110.93	591033.00	32°37'19.996"N	103°31'42.824"W	0.00	
12624.00†	90.000	269.463	11015.00	1690.98	-15.84	-1690.90	789010.93	591032.06	32°37'19.994"N	103°31'43.994"W	0.00	
12724.00†	90.000	269.463	11015.00	1790.98	-16.77	-1790.90	788910.94	591031.13	32°37'19.993"N	103°31'45.163"W	0.00	
12824.00†	90.000	269.463	11015.00	1890.98	-17.71	-1890.89	788810.95	591030.19	32°37'19.991"N	103°31'46.332"W	0.00	
12924.00†	90.000	269.463	11015.00	1990.98	-18.65	-1990.89	788710.95	591029.25	32°37'19.989"N	103°31'47.501"W	0.00	
13024.00†	90.000	269.463	11015.00	2090.98	-19.58	-2090.89	788610.96	591028.32	32°37'19.987"N	103°31'48.670"W	0.00	
13124.00†	90.000	269.463	11015.00	2190.98	-20.52	-2190.88	788510.97	591027.38	32°37'19.986"N	103°31'49.840"W	0.00	
13224.00†	90.000	269.463	11015.00	2290.98	-21.46	-2290.88	788410.97	591026.44	32°37'19.984"N	103°31'51.009"W	0.00	
13324.00†	90.000	269.463	11015.00	2390.98	-22.39	-2390.87	788310.98	591025.51	32°37'19.982"N	103°31'52.178"W	0.00	
13424.00†	90.000	269.463	11015.00	2490.98	-23.33	-2490.87	788210.99	591024.57	32°37'19.980"N	103°31'53.347"W	0.00	
13524.00†	90.000	269.463	11015.00	2590.98	-24.27	-2590.86	788110.99	591023.63	32°37'19.978"N	103°31'54.516"W	0.00	



Planned Wellpath Report

Prelim_1
Page 3 of 4



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 7H SHL
Area	Lea County, NM	Well	No. 7H
Field	(Mallon) Sec 35, T19S, R34E	Wellbore	No. 7H PWB
Facility	Mallon 35 Fed No. 7H		

WELLPATH DATA (51 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13624.00†	90.000	269.463	11015.00	2690.98	-25.20	-2690.86	788011.00	591022.70	32°37'19.977"N	103°31'55.686"W	0.00	
13724.00†	90.000	269.463	11015.00	2790.98	-26.14	-2790.86	787911.01	591021.76	32°37'19.975"N	103°31'56.855"W	0.00	
13824.00†	90.000	269.463	11015.00	2890.98	-27.08	-2890.85	787811.01	591020.82	32°37'19.973"N	103°31'58.024"W	0.00	
13924.00†	90.000	269.463	11015.00	2990.98	-28.01	-2990.85	787711.02	591019.89	32°37'19.971"N	103°31'59.193"W	0.00	
14024.00†	90.000	269.463	11015.00	3090.98	-28.95	-3090.84	787611.02	591018.95	32°37'19.969"N	103°32'00.362"W	0.00	
14124.00†	90.000	269.463	11015.00	3190.98	-29.89	-3190.84	787511.03	591018.02	32°37'19.967"N	103°32'01.532"W	0.00	
14224.00†	90.000	269.463	11015.00	3290.98	-30.82	-3290.83	787411.04	591017.08	32°37'19.966"N	103°32'02.701"W	0.00	
14324.00†	90.000	269.463	11015.00	3390.98	-31.76	-3390.83	787311.04	591016.14	32°37'19.964"N	103°32'03.870"W	0.00	
14424.00†	90.000	269.463	11015.00	3490.98	-32.69	-3490.82	787211.05	591015.21	32°37'19.962"N	103°32'05.039"W	0.00	
14524.00†	90.000	269.463	11015.00	3590.98	-33.63	-3590.82	787111.06	591014.27	32°37'19.960"N	103°32'06.208"W	0.00	
14624.00†	90.000	269.463	11015.00	3690.98	-34.57	-3690.82	787011.06	591013.33	32°37'19.958"N	103°32'07.377"W	0.00	
14724.00†	90.000	269.463	11015.00	3790.98	-35.50	-3790.81	786911.07	591012.40	32°37'19.956"N	103°32'08.547"W	0.00	
14824.00†	90.000	269.463	11015.00	3890.98	-36.44	-3890.81	786811.08	591011.46	32°37'19.955"N	103°32'09.716"W	0.00	
14924.00†	90.000	269.463	11015.00	3990.98	-37.38	-3990.80	786711.08	591010.52	32°37'19.953"N	103°32'10.885"W	0.00	
15024.00†	90.000	269.463	11015.00	4090.98	-38.31	-4090.80	786611.09	591009.59	32°37'19.951"N	103°32'12.054"W	0.00	
15124.00†	90.000	269.463	11015.00	4190.98	-39.25	-4190.79	786511.10	591008.65	32°37'19.949"N	103°32'13.223"W	0.00	
15224.00†	90.000	269.463	11015.00	4290.98	-40.19	-4290.79	786411.10	591007.71	32°37'19.947"N	103°32'14.393"W	0.00	
15324.00†	90.000	269.463	11015.00	4390.98	-41.12	-4390.79	786311.11	591006.78	32°37'19.945"N	103°32'15.562"W	0.00	
15424.00†	90.000	269.463	11015.00	4490.98	-42.06	-4490.78	786211.12	591005.84	32°37'19.943"N	103°32'16.731"W	0.00	
15524.00†	90.000	269.463	11015.00	4590.98	-43.00	-4590.78	786111.12	591004.90	32°37'19.942"N	103°32'17.900"W	0.00	
15554.31	90.000	269.463	11015.00†	4621.28	-43.28	-4621.08	786080.82	591004.62	32°37'19.941"N	103°32'18.255"W	0.00	No. 7H PBHL



Planned Wellpath Report

Prelim_1
Page 4 of 4



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 7H SHL
Area	Lea County, NM	Well	No. 7H
Field	(Mallon) Sec 35, T19S, R34E	Wellbore	No. 7H PWB
Facility	Mallon 35 Fed No. 7H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Sha point
I) No. 7H PBHL	15554.31	11015.00	-43.28	-4621.08	786080.82	591004.62	32°37'19.941"N	103°32'18.255"W	

SURVEY PROGRAM: Ref Wellbore: No. 7H PWB Ref Wellpath: Prelim_1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	15554.31	NaviTrak (Standard)		No. 7H PWB

PROPOSED WELLPATH REPORT (CSV version)

Prepared by Baker Hughes INTEQ

Software System: WellArchitect®2.0

REFERENCE WELLPATH IDENTIFICATION

Operator Cimarex Energy Co.

Area Lea County, NM

Field (Mallon) Sec 35, T19S, R34E

Facility Mallon 35 Fed No. 7H

Slot No. 7H SHL

Well No. 7H

Wellbore No. 7H PWB

Wellpath Prelim_1

Sidetrack (none)

REPORT SETUP INFORMATION

Projection : NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet

North Refe Grid

Scale 0.99998

Convergen 0.44° East

Software S WellArchitect®

User Victor Hernandez

Report Ger 10/7/2009 at 3:38:14 PM

DataBase/ WA_Midland/ev113115.xml

WELLPAT	Local North [ft]	Local East [ft]	Grid East [ft]	Grid North [ft]	Latitude	Longitude
Slot Locati	0	0	790701.8	591047.9	32°37'20.0	103°31'24.223"W
Facility Ref			790701.8	591047.9	32°37'20.0	103°31'24.223"W
Field Refer			786447.2	587045	32°36'40.7	103°32'14.318"W

WELLPATH DATUM

Calculation Minimum curvature

Horizontal Facility Center

Vertical Re Rig on No. 7H SHL (RT)

MD Refere Rig on No. 7H SHL (RT)

Field Vertic Mean Sea Level

Rig on No. 0.00ft

Rig on No. 3720.00ft

Facility Ver 0.00ft

Section Ori 0.00ft

Section Ori 0.00ft

Section Azi 269.46°

WELLPATH DATA	Wellbore: No. 7H PWB	Wellpath: Prelim_1	† = interpolated/extrapolate				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]
0	0	269.463	0	0	0	0	790701.8
10824	0	269.463	10824	0	0	0	790701.8
† 10924	29.998	269.463	10919.49	25.59	-0.24	-25.58	790676.2
† 11024	59.996	269.463	10989.4	95.49	-0.89	-95.48	790606.3

†	11124	89.993	269.463	11015	190.98	-1.79	-190.97	790510.8
	11124.02	90	269.463	11015	191	-1.79	-190.99	790510.8
†	11224	90	269.463	11015	290.98	-2.73	-290.97	790410.8
†	11324	90	269.463	11015	390.98	-3.66	-390.96	790310.9
†	11424	90	269.463	11015	490.98	-4.6	-490.96	790210.9
†	11524	90	269.463	11015	590.98	-5.53	-590.95	790110.9
†	11624	90	269.463	11015	690.98	-6.47	-690.95	790010.9
†	11724	90	269.463	11015	790.98	-7.41	-790.94	789910.9
†	11824	90	269.463	11015	890.98	-8.34	-890.94	789810.9
†	11924	90	269.463	11015	990.98	-9.28	-990.93	789710.9
†	12024	90	269.463	11015	1090.98	-10.22	-1090.93	789610.9
†	12124	90	269.463	11015	1190.98	-11.15	-1190.93	789510.9
†	12224	90	269.463	11015	1290.98	-12.09	-1290.92	789410.9
†	12324	90	269.463	11015	1390.98	-13.03	-1390.92	789310.9
†	12424	90	269.463	11015	1490.98	-13.96	-1490.91	789210.9
†	12524	90	269.463	11015	1590.98	-14.9	-1590.91	789110.9
†	12624	90	269.463	11015	1690.98	-15.84	-1690.9	789010.9
†	12724	90	269.463	11015	1790.98	-16.77	-1790.9	788910.9
†	12824	90	269.463	11015	1890.98	-17.71	-1890.89	788811
†	12924	90	269.463	11015	1990.98	-18.65	-1990.89	788711
†	13024	90	269.463	11015	2090.98	-19.58	-2090.89	788611
†	13124	90	269.463	11015	2190.98	-20.52	-2190.88	788511
†	13224	90	269.463	11015	2290.98	-21.46	-2290.88	788411
†	13324	90	269.463	11015	2390.98	-22.39	-2390.87	788311
†	13424	90	269.463	11015	2490.98	-23.33	-2490.87	788211
†	13524	90	269.463	11015	2590.98	-24.27	-2590.86	788111
†	13624	90	269.463	11015	2690.98	-25.2	-2690.86	788011
†	13724	90	269.463	11015	2790.98	-26.14	-2790.86	787911
†	13824	90	269.463	11015	2890.98	-27.08	-2890.85	787811
†	13924	90	269.463	11015	2990.98	-28.01	-2990.85	787711
†	14024	90	269.463	11015	3090.98	-28.95	-3090.84	787611
†	14124	90	269.463	11015	3190.98	-29.89	-3190.84	787511
†	14224	90	269.463	11015	3290.98	-30.82	-3290.83	787411
†	14324	90	269.463	11015	3390.98	-31.76	-3390.83	787311
†	14424	90	269.463	11015	3490.98	-32.69	-3490.82	787211.1
†	14524	90	269.463	11015	3590.98	-33.63	-3590.82	787111.1
†	14624	90	269.463	11015	3690.98	-34.57	-3690.82	787011.1
†	14724	90	269.463	11015	3790.98	-35.5	-3790.81	786911.1
†	14824	90	269.463	11015	3890.98	-36.44	-3890.81	786811.1
†	14924	90	269.463	11015	3990.98	-37.38	-3990.8	786711.1
†	15024	90	269.463	11015	4090.98	-38.31	-4090.8	786611.1
†	15124	90	269.463	11015	4190.98	-39.25	-4190.79	786511.1
†	15224	90	269.463	11015	4290.98	-40.19	-4290.79	786411.1
†	15324	90	269.463	11015	4390.98	-41.12	-4390.79	786311.1
†	15424	90	269.463	11015	4490.98	-42.06	-4490.78	786211.1
†	15524	90	269.463	11015	4590.98	-43	-4590.78	786111.1
	15554.31	90	269.463	11015	4621.28	-43.28	-4621.08	786080.8

TARGETS

Name	MD	TVD	North	East	Grid East	Grid North	Latitude	Longitude
	[ft]	[ft]	[ft]	[ft]	[srv ft]	[srv ft]		
(1) No. 7H	15554.31	11015	-43.28	-4621.08	786080.8	591004.6	32°37'19.9	103°32'18.1

SURVEY PROGRAM Ref Wellbore: No. 7H PWB Ref Wellpath: Prelim_1

Start MD End MD Pos Unc M Log Name/ Wellbore

[ft] [ft]

0 15554.31 NaviTrak (Standard) No. 7H PWB

Grid North	Latitude	Longitude	DLS	Comments
[svt ft]			[°/100ft]	
591047.9	32°37'20.0:	103°31'24.:	0	Tie On
591047.9	32°37'20.0	103°31'24.:	0	EST. KOP
591047.7	32°37'20.0:	103°31'24.:	30	
591047	32°37'20.0:	103°31'25.:	30	

591046.1 32°37'20.0 103°31'26.	30	
591046.1 32°37'20.0 103°31'26.	30	END OF CURVE
591045.2 32°37'20.0 103°31'27.	0	
591044.2 32°37'20.0 103°31'28.	0	
591043.3 32°37'20.0 103°31'29.	0	
591042.4 32°37'20.0 103°31'31.	0	
591041.4 32°37'20.0 103°31'32.	0	
591040.5 32°37'20.0 103°31'33.	0	
591039.6 32°37'20.0 103°31'34.	0	
591038.6 32°37'20.0 103°31'35.	0	
591037.7 32°37'20.0 103°31'36.	0	
591036.8 32°37'20.0 103°31'38.	0	
591035.8 32°37'20.0 103°31'39.	0	
591034.9 32°37'20.0 103°31'40.	0	
591033.9 32°37'19.9 103°31'41.	0	
591033 32°37'19.9 103°31'42.	0	
591032.1 32°37'19.9 103°31'43.	0	
591031.1 32°37'19.9 103°31'45.	0	
591030.2 32°37'19.9 103°31'46.	0	
591029.3 32°37'19.9 103°31'47.	0	
591028.3 32°37'19.9 103°31'48.	0	
591027.4 32°37'19.9 103°31'49.	0	
591026.4 32°37'19.9 103°31'51.	0	
591025.5 32°37'19.9 103°31'52.	0	
591024.6 32°37'19.9 103°31'53.	0	
591023.6 32°37'19.9 103°31'54.	0	
591022.7 32°37'19.9 103°31'55.	0	
591021.8 32°37'19.9 103°31'56.	0	
591020.8 32°37'19.9 103°31'58.	0	
591019.9 32°37'19.9 103°31'59.	0	
591019 32°37'19.9 103°32'00.	0	
591018 32°37'19.9 103°32'01.	0	
591017.1 32°37'19.9 103°32'02.	0	
591016.1 32°37'19.9 103°32'03.	0	
591015.2 32°37'19.9 103°32'05.	0	
591014.3 32°37'19.9 103°32'06.	0	
591013.3 32°37'19.9 103°32'07.	0	
591012.4 32°37'19.9 103°32'08.	0	
591011.5 32°37'19.9 103°32'09.	0	
591010.5 32°37'19.9 103°32'10.	0	
591009.6 32°37'19.9 103°32'12.	0	
591008.7 32°37'19.9 103°32'13.	0	
591007.7 32°37'19.9 103°32'14.	0	
591006.8 32°37'19.9 103°32'15.	0	
591005.8 32°37'19.9 103°32'16.	0	
591004.9 32°37'19.9 103°32'17.	0	
591004.6 32°37'19.9 103°32'18.	0	No. 7H PE 1

Shape Comment Design Comments

point