

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

State of New Mexico
Energy Minerals and Natural Resources

JAN 26 2009

Form C-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505



Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Cimarex Energy Co. of Colorado PO Box 140907 Irving, TX 75014-0907		² OGRID Number 162683
		³ API Number 30-015-23818
⁴ Property Code	⁵ Property Name Parkway C State Com	⁶ Well No. 001
⁹ Proposed Pool 1 Turkey Track; Bone Spring (60660)		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	15	19S	29E		1980	North	1980	West	Eddy

⁸ Proposed 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
P	15	19S	29E		330	South	330	East	Eddy

Additional Well Information

¹¹ Work Type Code A	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3339.1' GR
¹⁶ Multiple N	¹⁷ Proposed Depth 12072' (horizontal MD)	¹⁸ Formation Bone Spring	¹⁹ Contractor N/A	²⁰ Spud Date When Approved
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
²¹ Proposed Casing and Cement Program				
Pit: Liner. Synthetic ☐ _____mils thick Clay ☐ Pit Volume: _____bbls Drilling Method: _____				
Closed-Loop System ☒ Flowback Tanks Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17½"	11¾"	42#	225'	450 sx, 1" w/ 8 yds	Surface
11"	8⅝"	24#	2750'	1000 sx	Surface
7⅞"	5½"	17#	10848'	850 sx	6900' sqz
6⅞"	3½"	9.3#	12072'	No cmt, PEAK	

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Well shut in since 02-00. Open Bone Spring perfs @ 7939-78.' Cisco, Canyon, Strawn, and Atoka perfs are behind CIBPs (please see attached WBD). Cimarex proposes the following operations to recompleat horizontally in the Bone Spring:

- Kill well. NU 5K BOP. Set CIBP @ 7889' (over Bone Spring) w/ 35' cmt. Set CIBP @ 7772' w/ 2 sx sand.
- Mill window from 7750' to 7765.' Kick off 6⅞" hole at 7760.' Land curve @ 8066' MD and drill to TD of 12072' MD and 7955' TVD.
- Run 3½" 9.3# P-110 EUE 8rd liner from RSB packer at 7750' to TD of 12072' MD. Liner will be PEAK completion assembly with no cement.
- Fracture treat in several stages as needed through iso-ports (separated by iso-packers).

Please see attached preliminary directional survey, current WBD, and C-102.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Natalie Krueger
Printed name: Natalie Krueger
Title: Regulatory Analyst

E-mail Address: nkrueger@cimarex.com

Date: January 21, 2009

Phone: 469-420-2723

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

Conditions of Approval Attached ☐



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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

¹ API Number 30-015-23818		² Pool Code 60660	³ Pool Name Turkey Track; Bone Spring
⁴ Property Code 18721	⁵ Property Name Parkway C State Com		⁶ Well Number 001
⁷ OGRID No. 162683	⁸ Operator Name CIMAREX ENERGY CO. OF COLORADO		⁹ Elevation 3339.1' GR

¹⁰ Surface Location

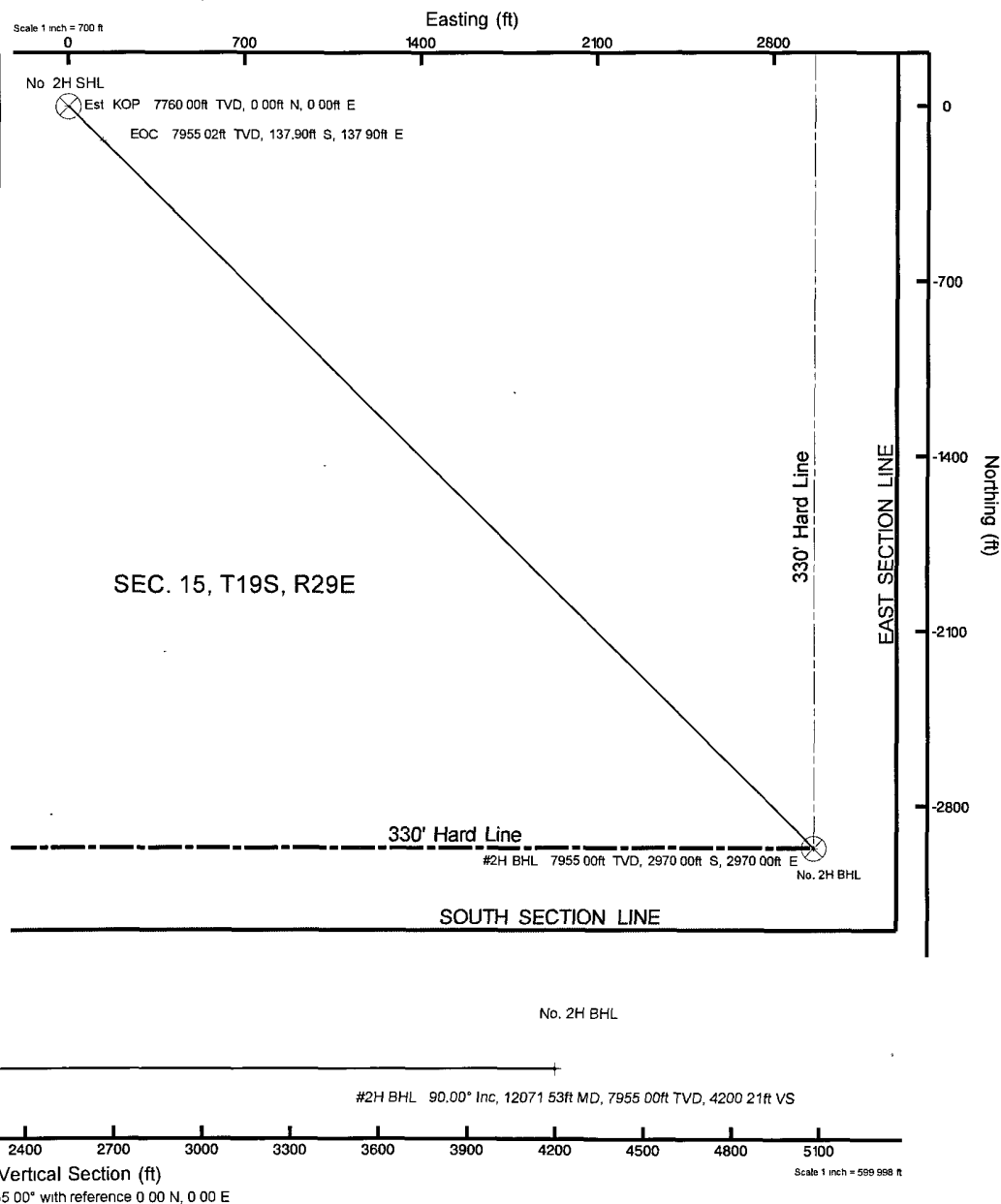
UL or lot no. F	Section 15	Township 19S	Range 29E	Lot Idn	Feet from the 1980	North/South line North	Feet from the 1980	East/West line West	County Eddy
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. P	Section 15	Township 19S	Range 29E	Lot Idn	Feet from the 330	North/South line South	Feet from the 330	East/West line East	County Eddy
¹² Dedicated Acres 280	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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 undivided 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. <u>Zeno Farris</u> 1/21/2009 Signature Date Zeno Farris Printed Name
	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. Date of Survey Signature and Seal of Professional Surveyor:
	Certificate Number





Planned Wellpath Report

Preliminary Plan

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co. of Colorado	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Parkway) Sec 15, T19S, R29E	Wellbore	No.2H PWB
Facility	Parkway C State Com. #1H		

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	Gomeoscr
Scale	1.00024	Report Generated	1/8/2009 at 4:52:33 PM
Convergence at slot	n/a	Database/Source file	WA_Midland/No.2H_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	0.00	0.00	30°59'18.404"N	106°03'38.987"W
Facility Reference Pt			0.00	0.00	30°59'18.404"N	106°03'38.987"W
Field Reference Pt			0.00	0.00	30°59'18.404"N	106°03'38.987"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 2H SHL (RT) to Facility Vertical Datum	17.50ft
Horizontal Reference Pt	Facility Center	Rig on No. 2H SHL (RT) to Mean Sea Level	3356.50ft
Vertical Reference Pt	Rig on No. 2H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 2H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	135.00°



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Facility	Parkway C State Com. #1H		

WELLPATH DATA (127 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00	0.000	135.000	0.00	0.00	0.00	0.00	0.00	Tie On
100.00†	0.000	135.000	100.00	0.00	0.00	0.00	0.00	
200.00†	0.000	135.000	200.00	0.00	0.00	0.00	0.00	
300.00†	0.000	135.000	300.00	0.00	0.00	0.00	0.00	
400.00†	0.000	135.000	400.00	0.00	0.00	0.00	0.00	
500.00†	0.000	135.000	500.00	0.00	0.00	0.00	0.00	
600.00†	0.000	135.000	600.00	0.00	0.00	0.00	0.00	
700.00†	0.000	135.000	700.00	0.00	0.00	0.00	0.00	
800.00†	0.000	135.000	800.00	0.00	0.00	0.00	0.00	
900.00†	0.000	135.000	900.00	0.00	0.00	0.00	0.00	
1000.00†	0.000	135.000	1000.00	0.00	0.00	0.00	0.00	
1100.00†	0.000	135.000	1100.00	0.00	0.00	0.00	0.00	
1200.00†	0.000	135.000	1200.00	0.00	0.00	0.00	0.00	
1300.00†	0.000	135.000	1300.00	0.00	0.00	0.00	0.00	
1400.00†	0.000	135.000	1400.00	0.00	0.00	0.00	0.00	
1500.00†	0.000	135.000	1500.00	0.00	0.00	0.00	0.00	
1600.00†	0.000	135.000	1600.00	0.00	0.00	0.00	0.00	
1700.00†	0.000	135.000	1700.00	0.00	0.00	0.00	0.00	
1800.00†	0.000	135.000	1800.00	0.00	0.00	0.00	0.00	
1900.00†	0.000	135.000	1900.00	0.00	0.00	0.00	0.00	
2000.00†	0.000	135.000	2000.00	0.00	0.00	0.00	0.00	
2100.00†	0.000	135.000	2100.00	0.00	0.00	0.00	0.00	
2200.00†	0.000	135.000	2200.00	0.00	0.00	0.00	0.00	
2300.00†	0.000	135.000	2300.00	0.00	0.00	0.00	0.00	
2400.00†	0.000	135.000	2400.00	0.00	0.00	0.00	0.00	
2500.00†	0.000	135.000	2500.00	0.00	0.00	0.00	0.00	
2600.00†	0.000	135.000	2600.00	0.00	0.00	0.00	0.00	
2700.00†	0.000	135.000	2700.00	0.00	0.00	0.00	0.00	
2800.00†	0.000	135.000	2800.00	0.00	0.00	0.00	0.00	
2900.00†	0.000	135.000	2900.00	0.00	0.00	0.00	0.00	
3000.00†	0.000	135.000	3000.00	0.00	0.00	0.00	0.00	
3100.00†	0.000	135.000	3100.00	0.00	0.00	0.00	0.00	
3200.00†	0.000	135.000	3200.00	0.00	0.00	0.00	0.00	
3300.00†	0.000	135.000	3300.00	0.00	0.00	0.00	0.00	
3400.00†	0.000	135.000	3400.00	0.00	0.00	0.00	0.00	
3500.00†	0.000	135.000	3500.00	0.00	0.00	0.00	0.00	
3600.00†	0.000	135.000	3600.00	0.00	0.00	0.00	0.00	
3700.00†	0.000	135.000	3700.00	0.00	0.00	0.00	0.00	
3800.00†	0.000	135.000	3800.00	0.00	0.00	0.00	0.00	
3900.00†	0.000	135.000	3900.00	0.00	0.00	0.00	0.00	
4000.00†	0.000	135.000	4000.00	0.00	0.00	0.00	0.00	
4100.00†	0.000	135.000	4100.00	0.00	0.00	0.00	0.00	
4200.00†	0.000	135.000	4200.00	0.00	0.00	0.00	0.00	
4300.00†	0.000	135.000	4300.00	0.00	0.00	0.00	0.00	
4400.00†	0.000	135.000	4400.00	0.00	0.00	0.00	0.00	



Planned Wellpath Report

Preliminary Plan

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co. of Colorado	Slot	No. 2H SHL
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Field	(Parkway) Sec 15, T19S, R29E	Wellbore	No.2H PWB
Facility	Parkway C State Com. #1H		

WELLPATH DATA (127 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4500.00†	0.000	135.000	4500.00	0.00	0.00	0.00	0.00	
4600.00†	0.000	135.000	4600.00	0.00	0.00	0.00	0.00	
4700.00†	0.000	135.000	4700.00	0.00	0.00	0.00	0.00	
4800.00†	0.000	135.000	4800.00	0.00	0.00	0.00	0.00	
4900.00†	0.000	135.000	4900.00	0.00	0.00	0.00	0.00	
4930.00†	0.000	135.000	4930.00	0.00	0.00	0.00	0.00	Bone Springs
5000.00†	0.000	135.000	5000.00	0.00	0.00	0.00	0.00	
5100.00†	0.000	135.000	5100.00	0.00	0.00	0.00	0.00	
5200.00†	0.000	135.000	5200.00	0.00	0.00	0.00	0.00	
5300.00†	0.000	135.000	5300.00	0.00	0.00	0.00	0.00	
5400.00†	0.000	135.000	5400.00	0.00	0.00	0.00	0.00	
5500.00†	0.000	135.000	5500.00	0.00	0.00	0.00	0.00	
5600.00†	0.000	135.000	5600.00	0.00	0.00	0.00	0.00	
5700.00†	0.000	135.000	5700.00	0.00	0.00	0.00	0.00	
5800.00†	0.000	135.000	5800.00	0.00	0.00	0.00	0.00	
5900.00†	0.000	135.000	5900.00	0.00	0.00	0.00	0.00	
6000.00†	0.000	135.000	6000.00	0.00	0.00	0.00	0.00	
6100.00†	0.000	135.000	6100.00	0.00	0.00	0.00	0.00	
6200.00†	0.000	135.000	6200.00	0.00	0.00	0.00	0.00	
6300.00†	0.000	135.000	6300.00	0.00	0.00	0.00	0.00	
6400.00†	0.000	135.000	6400.00	0.00	0.00	0.00	0.00	
6500.00†	0.000	135.000	6500.00	0.00	0.00	0.00	0.00	
6600.00†	0.000	135.000	6600.00	0.00	0.00	0.00	0.00	
6700.00†	0.000	135.000	6700.00	0.00	0.00	0.00	0.00	
6800.00†	0.000	135.000	6800.00	0.00	0.00	0.00	0.00	
6900.00†	0.000	135.000	6900.00	0.00	0.00	0.00	0.00	
6908.00†	0.000	135.000	6908.00	0.00	0.00	0.00	0.00	1st BSS
7000.00†	0.000	135.000	7000.00	0.00	0.00	0.00	0.00	
7100.00†	0.000	135.000	7100.00	0.00	0.00	0.00	0.00	
7200.00†	0.000	135.000	7200.00	0.00	0.00	0.00	0.00	
7300.00†	0.000	135.000	7300.00	0.00	0.00	0.00	0.00	
7400.00†	0.000	135.000	7400.00	0.00	0.00	0.00	0.00	
7500.00†	0.000	135.000	7500.00	0.00	0.00	0.00	0.00	
7600.00†	0.000	135.000	7600.00	0.00	0.00	0.00	0.00	
7700.00†	0.000	135.000	7700.00	0.00	0.00	0.00	0.00	
7717.00†	0.000	135.000	7717.00	0.00	0.00	0.00	0.00	2nd BSS
7760.00	0.000	135.000	7760.00	0.00	0.00	0.00	0.00	Est KOP
7800.00†	11.752	135.000	7799.72	4.09	-2.89	2.89	29.38	
7900.00†	41.132	135.000	7888.28	48.13	-34.03	34.03	29.38	
8000.00†	70.512	135.000	7943.84	129.96	-91.89	91.89	29.38	
8066.33	90.000	135.000	7955.02	195.02	-137.90	137.90	29.38	EOC
8100.00†	90.000	135.000	7955.02	228.69	-161.71	161.71	0.00	
8200.00†	90.000	135.000	7955.02	328.69	-232.42	232.42	0.00	
8300.00†	90.000	135.000	7955.02	428.69	-303.13	303.13	0.00	
8400.00†	90.000	135.000	7955.01	528.69	-373.84	373.84	0.00	



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Preliminary Plan

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INTEQ

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Facility	Parkway C State Com. #1H		

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8500.00†	90.000	135.000	7955.01	628.69	-444.55	444.55	0.00	
8600.00†	90.000	135.000	7955.01	728.69	-515.26	515.26	0.00	
8700.00†	90.000	135.000	7955.01	828.69	-585.97	585.97	0.00	
8800.00†	90.000	135.000	7955.01	928.69	-656.68	656.68	0.00	
8900.00†	90.000	135.000	7955.01	1028.69	-727.39	727.39	0.00	
9000.00†	90.000	135.000	7955.01	1128.69	-798.10	798.10	0.00	
9100.00†	90.000	135.000	7955.01	1228.69	-868.81	868.81	0.00	
9200.00†	90.000	135.000	7955.01	1328.69	-939.52	939.52	0.00	
9300.00†	90.000	135.000	7955.01	1428.69	-1010.23	1010.23	0.00	
9400.00†	90.000	135.000	7955.01	1528.69	-1080.94	1080.94	0.00	
9500.00†	90.000	135.000	7955.01	1628.69	-1151.65	1151.65	0.00	
9600.00†	90.000	135.000	7955.01	1728.69	-1222.37	1222.37	0.00	
9700.00†	90.000	135.000	7955.01	1828.69	-1293.08	1293.08	0.00	
9800.00†	90.000	135.000	7955.01	1928.69	-1363.79	1363.79	0.00	
9900.00†	90.000	135.000	7955.01	2028.69	-1434.50	1434.50	0.00	
10000.00†	90.000	135.000	7955.01	2128.69	-1505.21	1505.21	0.00	
10100.00†	90.000	135.000	7955.01	2228.69	-1575.92	1575.92	0.00	
10200.00†	90.000	135.000	7955.01	2328.69	-1646.63	1646.63	0.00	
10300.00†	90.000	135.000	7955.01	2428.69	-1717.34	1717.34	0.00	
10400.00†	90.000	135.000	7955.01	2528.69	-1788.05	1788.05	0.00	
10500.00†	90.000	135.000	7955.01	2628.69	-1858.76	1858.76	0.00	
10600.00†	90.000	135.000	7955.01	2728.69	-1929.47	1929.47	0.00	
10700.00†	90.000	135.000	7955.01	2828.69	-2000.18	2000.18	0.00	
10800.00†	90.000	135.000	7955.01	2928.69	-2070.89	2070.89	0.00	
10900.00†	90.000	135.000	7955.00	3028.69	-2141.60	2141.60	0.00	
11000.00†	90.000	135.000	7955.00	3128.69	-2212.31	2212.31	0.00	
11100.00†	90.000	135.000	7955.00	3228.69	-2283.03	2283.03	0.00	
11200.00†	90.000	135.000	7955.00	3328.69	-2353.74	2353.74	0.00	
11300.00†	90.000	135.000	7955.00	3428.69	-2424.45	2424.45	0.00	
11400.00†	90.000	135.000	7955.00	3528.69	-2495.16	2495.16	0.00	
11500.00†	90.000	135.000	7955.00	3628.69	-2565.87	2565.87	0.00	
11600.00†	90.000	135.000	7955.00	3728.69	-2636.58	2636.58	0.00	
11700.00†	90.000	135.000	7955.00	3828.69	-2707.29	2707.29	0.00	
11800.00†	90.000	135.000	7955.00	3928.69	-2778.00	2778.00	0.00	
11900.00†	90.000	135.000	7955.00	4028.69	-2848.71	2848.71	0.00	
12000.00†	90.000	135.000	7955.00	4128.69	-2919.42	2919.42	0.00	
12071.53	90.000	135.000	7955.00 ¹	4200.21	-2970.00	2970.00	0.00	#2H BHL



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Preliminary Plan

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INTEQ

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Facility	Parkway C State Com. #1H		

HOLE & CASING SECTIONS Ref Wellbore: No.2H PWB Ref Wellpath: Preliminary Plan

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
8.625in Casing	0.00	2750.00	2750.00	0.00	2750.00	0.00	0.00	0.00	0.00
5.5in Casing	0.00	7760.00	7760.00	0.00	7760.00	0.00	0.00	0.00	0.00

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 2H BHL	12071.53	7955.00	-2970.00	2970.00	2970.72	-2970.72	30°58'49.468"N	106°03'04.345"W	point

Parkway C State Com No. 1

30-015-23818

F-15-19S-29E

1980 FNL & 1980 FWL

Spud date 06-16-93

17½" hole
11¾" 42# H-40 STC to 225'
450 sx, 1" w/ 8 yd redimix

11" hole
8¾" 24# S-80 & K-55 STC to 2750'
1000 sx, circ 140 sx
(S-80 0-2193' & K-55 2193'-2750')

Bone Spring 6915'

CR @ 7760' w/ 150 sx cmt
2 Squeeze holes @ 7810'
(DO cmt to 7810')
New TOC 6900' behind 5½" csg

Wolfcamp 9079'

Cisco 9805'

Canyon 9975'

Strawn 10244'

Atoka 10517'

7¾" hole
5½" S-95, N-80, K-55 to 10848'
850 sx
(N-80 LTC 0-2620' & K-55 STC 2620'-6598' & N-80 LTC 6598'-9849' & S-95 LTC 9849'-10848')

TD 10850', PBD 10800'

Bone Spring 7939'-7978' (06/93)

4 spf, 156 holes

Acidize 2600g 7 ½% NeFe HCl

**Frac 48812g 35# Borate x-link w/
244400# 20/40 Ottawa sand**

CIBP @ 9780' w/ 35' cmt (PBD 9745')

Cisco 9807'-9852' (08/90)

2 jsfp, 84 holes

Acidize 4000g 15% NeFe w/ 126 bs

Canyon 9994'-10092' (08/90)

1 jsfp, 78 holes

Acidize 7800g 15% NeFe w/ 117 bs

CIBP @ 10260' w/ 34' cmt (PBD 10296)

**Strawn 10440'-10452' &
10496'-10502' (03/85)**

4 jsfp, 68 holes

**Acidize 3000g 15% HCl, 1000 scf N₂ &
90 1.1 sp gr bs**

CIBP @ 10690' w/ 35' cmt (PBD 10655')

Atoka 10750'-10760' (12/81)

4 jsfp, 40 holes

Acidize 2500g 7 ½% acid & 92000 scf N₂