



S

EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(432) 686-3600

(432) 686-3642 Office
(432) 770-0602 Cell
Donny_Glanton@eogresources.com

4/29/2008

MAY - 1 2008
OCD-ARTESIA

OCD-Artesia
1301 W. Grand Avenue
Artesia, NM 88210

30-015-36303

Re: BULLDOG 19 STATE 2H

As per the submittal comments of the C-101 (Electronic Permitting Application) for the above captioned well, please find the following additional information submitted for your review and processing.

- Well Plat
- Detailed Casing
- Mud
- Cement
- Drilling Plan
- H₂S Letter

Should you have any additional questions, please feel to give me a call.

Thanks and best regards.

Very truly yours,

A handwritten signature in black ink, appearing to read "Donny G. Glanton".

Donny G. Glanton
Sr. Lease Operations ROW Representative

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

MAY - 1 2008
OCD-ARTESIA

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-36303	Pool Code 97415	Pool Name Four Mile Draw; Wolfcamp
Property Code 37144	Property Name BULLDOG "19" STATE	Well Number 2H
OGRID No. 7377	Operator Name EOG RESOURCES INC.	Elevation 4046.2'

Surface Location

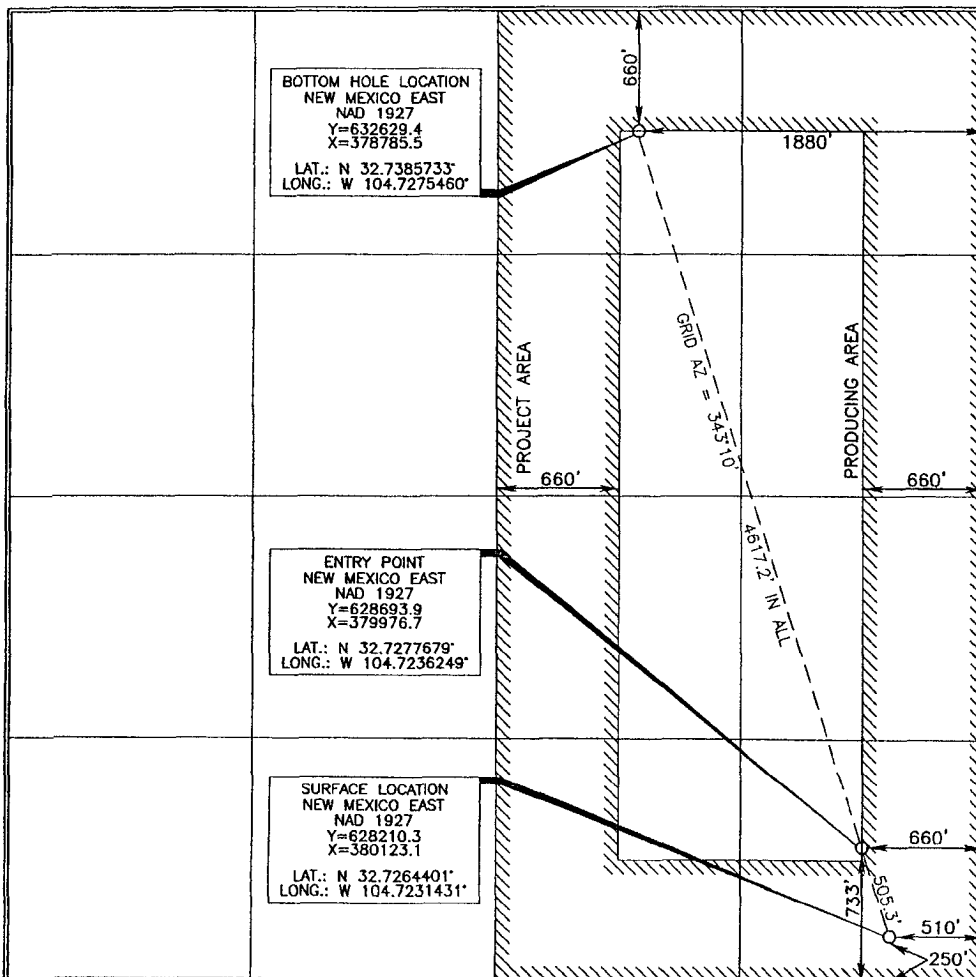
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	19	18 SOUTH	23 EAST, N.M.P.M.		250'	SOUTH	510'	EAST	EDDY

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
B	19	18 SOUTH	23 EAST, N.M.P.M.		660'	NORTH	1880'	EAST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	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.



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.

Donny G. Glanton 4/23/2008
Signature Date

Donny G. Glanton
Printed Name

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.

APRIL 22, 2008
Date of Survey

Signature and Seal of Professional Surveyor

Terry J. Chel 4/24/2008
Certificate Number 15079

WO# 080422WL(KA)

Permit Information:

Well Name: ¹⁹ Bulldog State #2H

Location:

SL 250' FSL & 510' FEL, Section 19, T-18-S, R-23-E, Eddy Co., N.M.
 BHL 660' FNL & 1880' FEL, Section 19, T-18-S, R-23-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	1,200'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	8,818'	7-7/8"	5 1/2"	17#	N-80	Surface

Cement Program:

Depth	No. Sacks	Slurries:
1,200'	345	Lead: 35:65 Poz C + 4% Bentonite+ 0.005 gps FP-6L + 0.005 pps Static Free + 5 pps LCM-1 + 5% NaCl + 5% MPA-5 + 0.8% SMS
	400	Tail: Class C + 0.005 gps FP-6L + 0.005 pps Static Free + 0.125 pps CelloFlake
8,818'	630	Lead: 50:50 Poz:Class C + 0.005 gps FP-6L + 10% Bentonite + 0.005 pps Static Free + 0.125 pps CelloFlake
	745	Tail: 50:50 Poz:Class C + 2% Bentonite + 0.005 gps FP-6L + 0.005 pps Static Free + 5% NaCl + 0.3% FL-2A + 0.2% CD-32 + 0.05% R-3

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,200'	Fresh - Gel	8.6-8.8	28-34	N/c
1,200' – 4,000'	Cut Brine	8.8-9.2	28-34	N/c
4,000' – 4,850'	Cut Brine	8.8-9.2	28-34	10-15
3,800' – 8,818'	Polymer (Lateral)	9.0-9.4	40-45	10-25



EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(432) 686-3600

April 23, 2008

State of New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

To Whom It May Concern:

I am writing to request a waiver for the inclusion of an H₂S Contingency Plan for the Bulldog State #2H. The current plan is to complete this well in the Wolfcamp, which is sweet, and I do not anticipate encountering any H₂S bearing formations during drilling operations.

Sincerely,

A handwritten signature in black ink, appearing to read "Jason LaGrega", written over the printed name and title.

Jason LaGrega
Drilling Engineer

EOG Resources Inc

Planning Report

Database: EDM
Company: Midland - New Mexico
Project: Thames
Site: Bulldog State #2H
Well: Bulldog State #2H
Wellbore: Bulldog State #2H
Design: Original Plan

Local Co-ordinate Reference: Well Bulldog State #2H
TVD Reference: WELL @ 4065.20ft (Original Well Elev)
MD Reference: WELL @ 4065.20ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project Thames

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Ground Level

Site Bulldog State #2H

Site Position: Northing: 628,210.30ft Latitude: 32° 43' 35.184 N
From: Map Easting: 380,123.10ft Longitude: 104° 43' 23.314 W
Position Uncertainty: 0.00ft Slot Radius: " Grid Convergence: -0.21°

Well Bulldog State #2H

Well Position +N/-S 0.00ft Northing: 628,210.30ft Latitude: 32° 43' 35.184 N
 +E/-W 0.00ft Easting: 380,123.10ft Longitude: 104° 43' 23.314 W
Position Uncertainty 0.00ft Wellhead Elevation: ft Ground Level: 4,046.20ft

Wellbore Bulldog State #2H

Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(?)	(?)	(nT)
	IGRF2005	4/23/2008	8.51	60.50	49,049

Design Original Plan

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 0.00

Vertical Section: Depth From (TVD) (ft) +N/-S (ft) +E/-W (ft) Direction (?)
 0.00 0.00 0.00 343.16

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,722.76	76.00	340.00	4,475.00	495.56	-180.37	8.24	8.24	0.00	340.00	
4,969.46	90.00	343.67	4,505.00	727.63	-256.39	5.86	5.68	1.49	14.85	
5,969.46	90.00	343.67	4,505.00	1,687.29	-537.56	0.00	0.00	0.00	0.00	
6,035.96	92.00	343.68	4,503.84	1,751.10	-556.25	3.00	3.00	0.01	0.20	
8,817.52	92.00	343.68	4,407.01	4,418.92	-1,337.55	0.00	0.00	0.00	0.00	
8,817.72	92.00	343.68	4,407.00	4,419.11	-1,337.60	3.00	2.52	1.63	32.82	BHL (Bulldog #2H)

EOG Resources Inc

Planning Report

Database: EDM
Company: Midland - New Mexico
Project: Thames
Site: Bulldog State #2H
Well: Bulldog State #2H
Wellbore: Bulldog State #2H
Design: Original Plan

Local Co-ordinate Reference: Well Bulldog State #2H
TVD Reference: WELL @ 4065.20ft (Original Well Elev)
MD Reference: WELL @ 4065 20ft (Original Well Elev)
North Reference: Grid
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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	8.24	340.00	3,899.66	6.74	-2.45	7.16	8.24	8.24	0.00
4,000.00	16.47	340.00	3,997.26	26.83	-9.77	28.51	8.24	8.24	0.00
4,100.00	24.71	340.00	4,090.79	59.85	-21.78	63.59	8.24	8.24	0.00
4,200.00	32.94	340.00	4,178.32	105.12	-38.26	111.69	8.24	8.24	0.00
4,300.00	41.18	340.00	4,258.05	161.70	-58.86	171.82	8.24	8.24	0.00
4,400.00	49.42	340.00	4,328.33	228.44	-83.14	242.73	8.24	8.24	0.00
4,500.00	57.65	340.00	4,387.71	303.94	-110.63	322.96	8.24	8.24	0.00
4,600.00	65.89	340.00	4,434.97	386.67	-140.73	410.86	8.24	8.24	0.00
4,700.00	74.13	340.00	4,469.13	474.90	-172.85	504.61	8.24	8.24	0.00
4,700.68	74.18	340.00	4,469.32	475.51	-173.07	505.25	8.24	8.24	0.00
PP (Bulldog #2H)									
4,722.76	76.00	340.00	4,475.00	495.56	-180.37	526.57	8.24	8.24	0.00
4,800.00	80.38	341.18	4,490.80	566.85	-205.48	602.07	5.86	5.67	1.52
4,900.00	86.06	342.66	4,502.61	661.21	-236.29	701.31	5.86	5.68	1.48

EOG Resources Inc

Planning Report

Database: EDM
Company: Midland - New Mexico
Project: Thames
Site: Bulldog State #2H
Well: Bulldog State #2H
Wellbore: Bulldog State #2H
Design: Original Plan

Local Co-ordinate Reference: Well Bulldog State #2H
TVD Reference: WELL @ 4065.20ft (Original Well Elev)
MD Reference: WELL @ 4065.20ft (Original Well Elev)
North Reference: Grid
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)
4,969.46	90.00	343.67	4,505.00	727.63	-256.39	770.71	5.86	5.68	1.46
5,000.00	90.00	343.67	4,505.00	756.94	-264.98	801.25	0.00	0.00	0.00
5,100.00	90.00	343.67	4,505.00	852.91	-293.09	901.24	0.00	0.00	0.00
5,200.00	90.00	343.67	4,505.00	948.88	-321.21	1,001.24	0.00	0.00	0.00
5,300.00	90.00	343.67	4,505.00	1,044.84	-349.33	1,101.24	0.00	0.00	0.00
5,400.00	90.00	343.67	4,505.00	1,140.81	-377.45	1,201.23	0.00	0.00	0.00
5,500.00	90.00	343.67	4,505.00	1,236.77	-405.56	1,301.23	0.00	0.00	0.00
5,600.00	90.00	343.67	4,505.00	1,332.74	-433.68	1,401.22	0.00	0.00	0.00
5,700.00	90.00	343.67	4,505.00	1,428.70	-461.80	1,501.22	0.00	0.00	0.00
5,800.00	90.00	343.67	4,505.00	1,524.67	-489.91	1,601.22	0.00	0.00	0.00
5,900.00	90.00	343.67	4,505.00	1,620.64	-518.03	1,701.21	0.00	0.00	0.00
5,969.46	90.00	343.67	4,505.00	1,687.29	-537.56	1,770.67	0.00	0.00	0.00
6,000.00	90.92	343.67	4,504.76	1,716.60	-546.15	1,801.21	3.00	3.00	0.01
6,035.96	92.00	343.68	4,503.84	1,751.10	-556.25	1,837.16	3.00	3.00	0.01
6,100.00	92.00	343.68	4,501.61	1,812.52	-574.24	1,901.15	0.00	0.00	0.00
6,200.00	92.00	343.68	4,498.13	1,908.43	-602.33	2,001.09	0.00	0.00	0.00
6,300.00	92.00	343.68	4,494.65	2,004.34	-630.41	2,101.02	0.00	0.00	0.00
6,400.00	92.00	343.68	4,491.17	2,100.25	-658.50	2,200.96	0.00	0.00	0.00
6,500.00	92.00	343.68	4,487.69	2,196.16	-686.59	2,300.89	0.00	0.00	0.00
6,600.00	92.00	343.68	4,484.21	2,292.08	-714.68	2,400.83	0.00	0.00	0.00
6,700.00	92.00	343.68	4,480.72	2,387.99	-742.77	2,500.76	0.00	0.00	0.00
6,800.00	92.00	343.68	4,477.24	2,483.90	-770.86	2,600.70	0.00	0.00	0.00
6,900.00	92.00	343.68	4,473.76	2,579.81	-798.95	2,700.63	0.00	0.00	0.00
7,000.00	92.00	343.68	4,470.28	2,675.72	-827.03	2,800.57	0.00	0.00	0.00
7,100.00	92.00	343.68	4,466.80	2,771.63	-855.12	2,900.51	0.00	0.00	0.00
7,200.00	92.00	343.68	4,463.32	2,867.54	-883.21	3,000.44	0.00	0.00	0.00
7,300.00	92.00	343.68	4,459.84	2,963.45	-911.30	3,100.38	0.00	0.00	0.00
7,400.00	92.00	343.68	4,456.36	3,059.36	-939.39	3,200.31	0.00	0.00	0.00
7,500.00	92.00	343.68	4,452.87	3,155.27	-967.48	3,300.25	0.00	0.00	0.00
7,600.00	92.00	343.68	4,449.39	3,251.19	-995.56	3,400.18	0.00	0.00	0.00
7,700.00	92.00	343.68	4,445.91	3,347.10	-1,023.65	3,500.12	0.00	0.00	0.00
7,800.00	92.00	343.68	4,442.43	3,443.01	-1,051.74	3,600.05	0.00	0.00	0.00
7,900.00	92.00	343.68	4,438.95	3,538.92	-1,079.83	3,699.99	0.00	0.00	0.00
8,000.00	92.00	343.68	4,435.47	3,634.83	-1,107.92	3,799.92	0.00	0.00	0.00
8,100.00	92.00	343.68	4,431.99	3,730.74	-1,136.01	3,899.86	0.00	0.00	0.00
8,200.00	92.00	343.68	4,428.50	3,826.65	-1,164.10	3,999.79	0.00	0.00	0.00
8,300.00	92.00	343.68	4,425.02	3,922.56	-1,192.18	4,099.73	0.00	0.00	0.00
8,400.00	92.00	343.68	4,421.54	4,018.47	-1,220.27	4,199.66	0.00	0.00	0.00
8,500.00	92.00	343.68	4,418.06	4,114.38	-1,248.36	4,299.60	0.00	0.00	0.00
8,600.00	92.00	343.68	4,414.58	4,210.30	-1,276.45	4,399.53	0.00	0.00	0.00
8,700.00	92.00	343.68	4,411.10	4,306.21	-1,304.54	4,499.47	0.00	0.00	0.00
8,800.00	92.00	343.68	4,407.62	4,402.12	-1,332.63	4,599.41	0.00	0.00	0.00
8,817.52	92.00	343.68	4,407.01	4,418.92	-1,337.55	4,616.91	0.00	0.00	0.00
8,817.72	92.00	343.68	4,407.00	4,419.11	-1,337.60	4,617.11	3.00	2.52	1.63

BHL (Bulldog #2H)

EOG Resources Inc

Planning Report

Database: EDM
Company: Midland - New Mexico
Project: Thames
Site: Bulldog State #2H
Well: Bulldog State #2H
Wellbore: Bulldog State #2H
Design: Original Plan

Local Co-ordinate Reference: Well Bulldog State #2H
TVD Reference: WELL @ 4065 20ft (Original Well Elev)
MD Reference: WELL @ 4065 20ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Targets

Target Name	hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape		(?)	(?)	(ft)	(ft)	(ft)	(ft)	(ft)		
BHL (Bulldog #2H)		0.00	360.00	4,407.00	4,419.11	-1,337.60	632,629.40	378,785.50	32° 44' 18.864 N	104° 43' 39.165 W
- plan hits target center										
- Point										
PP (Bulldog #2H)		0.00	360.00	4,475.00	483.60	-146.40	628,693.90	379,976.70	32° 43' 39.964 N	104° 43' 25.049 W
- plan misses target center by 28.44ft at 4700.68ft MD (4469 32 TVD, 475 51 N, -173.07 E)										
- Point										

WELL DETAILS: Bulldog State #2H

+N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 628210.30 380123.10 32° 43' 35.184 N 104° 43' 23.314 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	Target	Sec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	
3	4722.76	76.00	340.00	4475.00	495.56	-180.37	8.24	340.00	526.57	
4	4969.46	90.00	343.67	4505.00	727.63	-256.39	5.86	14.85	770.71	
5	5969.46	90.00	343.67	4505.00	1687.29	-537.56	0.00	0.00	1770.67	
6	6035.96	92.00	343.68	4503.84	1751.10	-556.25	3.00	0.20	1837.16	
7	8817.52	92.00	343.68	4407.01	4418.92	-1337.55	0.00	0.00	4616.91	
8	8817.72	92.00	343.68	4407.00	4419.11	-1337.60	0.00	0.00	4617.11	

