#### 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

### State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Ea NIM 87505

RECEIVED it to appropriate District Office

FEB 0 9 2006 ☐ AMENDED REPORT

			1 Operator Nam					N, PLUGBAC	<sup>2</sup> OGRID Number	
			BOLD EN	EPGV I D					233545	
			415 W. Wall	-					<sup>3</sup> API Number	
			Midland, Te	•					30 - 015 - 102	
<sup>3</sup> Prope	erty Code				<sup>5</sup> Property Na	me			<sup>6</sup> Well !	No.
					Jezebel Sta	ate			1H	
			Proposed Pool 1					10 Propo	osed Pool 2	
		Wilde	at; Wolfcamp	Gas	Surface Lo	l				
UL or lot no.	Section	Township	Panca	Lot Idn	Feet from t	<del></del>	outh line	Feet from the	East/West line	Country
OL or lot no.	36	18S	Range <b>21E</b>	Lot ion	660	l l	rth	810	East/ West line East	County <b>Eddy</b>
			8 Pron	osed Bottom	Hole Locatio	n If Differen	t From	Surface		•
UL or lot no.	Section	Township	Range	Lot Idn	Feet from t		outh line	Feet from the	East/West line	County
Р	36	185	21E		660	So	uth	660	East	Eddy
					tional Well					
11 Work	Type Code		12 Well Type C	ode	13 Cable/Ro Rotar		14	Lease Type Code		d Level Elevation <b>4122'</b>
16 N			17 Proposed De	epth	18 Format			19 Contractor		Spud Date
	No	450		267' MD	Wolfca			N/A		Availability
Depth to Gro	undwater	201		Distance fro	m nearest fresh			Distance from	nearest surface wat	er
<u>Pit:</u> Liner	: Synthetic		nils thick Clay	Pit Volum	> <b>1000</b>		Drilling 1	 Method:	> 1000'	
	ed-Loop Sys		,	_				☐ Brine ☑ Die	sel/Oil-based 🔲 G	as/Air 🗍
			2	Proposed	Casing and					<u></u>
11.1.6	1							1		1,500
Hole S		t	sing Size	Casing we		Setting De	eptn	Sacks of Cer		Stimated TOC  Circulated
12.2			8.625"	24.		1792	1	1375		Circulated
7.87			5.500"	17.		8267' N		900		1600'
· · · · · · · · · · · · · · · · · · ·										
		* alrea	dy in place							
Describe the  Nell was or	blowout pri iginally drii	evention pro led by Sun	ogram, if any. Uray DX Oil Con	se additional sh	eets if necessary to 7445' TD wit	th 4½" casing	set @ T	resent productive zo  D. Sun Oil compa	any plugged the w	ell in 1971 and
the 13 3/8" s	surface and asing was	d 8 5/8" into shot and p	ermediate casi oulled from 449	ng strings were 1'. BOLD EN	e left intact (cer ERGY, LP prop	ment was bro ooses to clear	ught to the out wellt ne will be	ne surface on thes pore, set cement p used for the clear	e strings when dri blug for KOP @ 40 nout and to drill to	illed) while the 4 043', build angle
90° at appro weight, vis a	ind WL as	necessary	to maintain ho	le stability and	well control. I	f commercial,	product tives (ac	on casing will be s d soluble); expect	set at TD and cemed TOC @ 1500'.	nented with 400
90° at appro weight, vis a 35:65 POZ: 3 <u>OP:</u> a 300 peginning d	and WL as Class "H" v 00 psi dout rectional c	necessary	to maintain ho as lead and ta nual preventer	le stability and iiled in with 60 with a stripper	well control. I 0 sx Class "H" head will be us	f commercial, cmt with addi sed for the cle	tives (ac	on casing will be s d soluble); expect nase of the operati annular will be insi	ed TOC @ 1500'. ions using a pullin	nented with 400
90° at approweight, vis a 35:65 POZ: BOP: a 300 beginning di Head will be 3 I hereby ce best of my kronstructed	and WL as Class "H" v to psi doub rectional control to added to rtify that the covoledge ar according	necessary w/ additives ble ram ma lrilling phas this stack e information d belief. I fit to NMOCD	to maintain ho as lead and ta nual preventer	le stability and tiled in with 60 with a stripper g, a 3000 psi h true and compl nat the drilling	well control. It is a control. If it is a control is a co	f commercial, cmt with addi sed for the cle ble ram preve	eanout plenter w/	d soluble); expect	ed TOC @ 1500'. ions using a pullin talled and, if need	g unit. Upon ed, a Rotating
ego at approveight, vis a sistematic policy and sistematic policy	and WL as Class "H" voluments of the class o	necessary  // additives  ble ram ma  frilling phas  this stack.  e informatic  d belief. I fo  to NMOCD  ve OCD-app	to maintain ho as lead and ta nual preventer e w/ a rotary ri n given above is urther certify the	le stability and tiled in with 60 with a stripper g, a 3000 psi h true and compl nat the drilling	well control. It is a control. It is a control. It is a control of the control of	f commercial, cmt with addi sed for the cle ble ram preve	eanout plenter w/	d soluble); expect nase of the operati annular will be inst ONSERVAT	ed TOC @ 1500'. ions using a pullin talled and, if need	g unit. Upon ed, a Rotating
ego at approveight, vis a 35:65 POZ: 30P: a 300 peginning didead will be a 3 I hereby ce pest of my kronstructed an (attached	and WL as Class "H" v 00 psi doub rectional control added to rtify that the covoledge are according alternative: D. C. I	necessary  // additives  ble ram ma  Irilling phas  this stack.  e informatic  d belief. I fi  to NMOCD  // OCD-app  Dodd	to maintain hos as lead and tanual preventer e w/ a rotary rien given above is urther certify the guidelines 🖾, proved plan	le stability and tiled in with 60 with a stripper g, a 3000 psi h true and compl nat the drilling	well control. If 0 sx Class "H" head will be us hydraulic - dou	f commercial, cmt with addi sed for the cleble ram prevented by:	eanout plenter w/	d soluble); expectinase of the operation annular will be instructed by the construction of the constructio	ed TOC @ 1500'. ions using a pullin talled and, if need	g unit. Upon ed, a Rotating
ego at approveight, vis a sistematic property of the sistematic property of	and WL as Class "H" value of psi double rectional control added to retify that the cowledge are according alternative D. C. Et for BO	necessary  // additives  ble ram ma  frilling phas  this stack.  e informatic  d belief. I fi  to NMOCD  // OCD-app  Dodd  LD ENER	to maintain hos as lead and tanual preventer e w/ a rotary rien given above is urther certify the guidelines 🖾, proved plan	le stability and tiled in with 60 with a stripper g, a 3000 psi he true and complete true and complete the drilling a general pern	well control. If 0 sx Class "H" head will be us hydraulic - dou	f commercial, cmt with addissed for the cleble ram prevented by:	OIL C	d soluble); expectinase of the operation annular will be instructed to the construction of the constructio	ed TOC @ 1500'. ions using a pullin talled and, if need	g unit. Upon ed, a Rotating

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88

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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

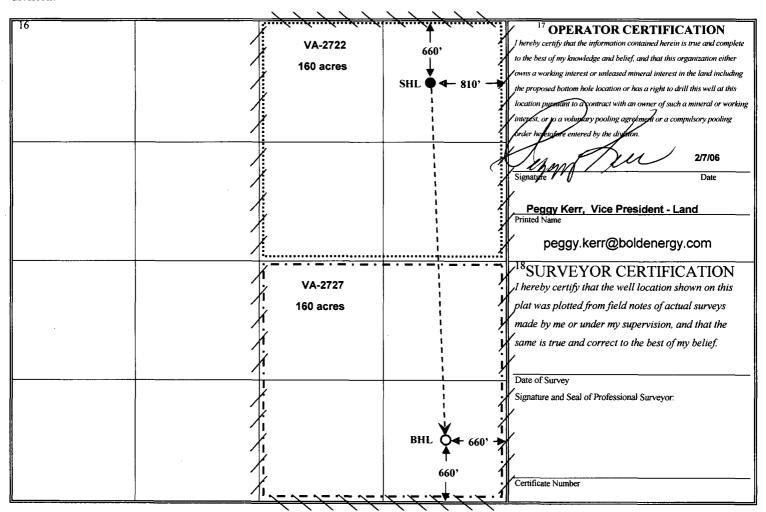
Fee Lease - 3 Copies

AMENDED REPORT

	ATIONI ANID	ACDEACE	DEDICATION	ONIDIAT
WELLING	ATION AND	AUKEAUE	DEDICATI	JNTLAL

eli Number
1H
Elevation
4122'
County
Eddy
County
Eddy

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.



New Mexico State "AM" #1

AKA

South Hope Unit #2

South Hope (Penn) Field

API No. 30 - 015 - 10222

660' FNL & 810' FEL Section 36 - T18S - R21E Eddy County, New Mexico

## **Current Status** 10 sk top plug 13 3/8" 48# H40 @ 120' GL 4122' Cmt'd w/ 225 sx & then 2 - 50 sx stages w/ 1" -DF 4132' total of 100 sx & gravel to get back to surface 7/4/63 TD 8/20/63 35 sk cmt plug f/ 546' - 646' P&A'd 5/25/71 8 5/8" 24# J55 @ 1792' w/ 500 sx. TOC by TS = 1000'. 12 stages w/ 1" - total of 825 sx cmt & 21 yards pea gravel to circ. Clearfork @ 2250' 35 sk plug across 8 5/8" shoe 1742' - 1842' 35 sk plug from 3400' - 3500' Abo Shale @ 3500' 35 sk plug from 4398' - 4498' Wolfcamp @ 4425' Shot 41/2" csg @ 4491' & pulled 144 jts Cisco @ 5390' ??? TOC on primary = 6375' Canyon @ 6427'

Model "D" pkr @ 7250' Sq perf w/ 25 sx, cap w/ cmt to 7160'

Strawn perfs 7277' - 7297'

w/ 150 sx, TOC by TS = 6375'

41/2" 9.5# - 10.5# - 11.6# J55 @ 7445' TD

Well was drilled and completed by SUNRAY DX Oil Company in 1963. It remained shut-in until a pipeline was connected in early 1969. Completed in Strawn (7277' - 7297') and initial test was 555 MCFPD w/ trace of condensate. SITP = 2150 psi. P&A by Sun Oil Company in May, 1971.

7445' TD 7412' PB

Strawn @ 6867'

Chester @ 7310

BOLD ENERGY, LP

Jezebel State #1H

Re-Enter P&A Wellbore / Drill WC Lateral

API No. 30 - 015 - 10222

660' FNL & 810' FEL Section 36 - T18S - R21E Eddy County, New Mexico **Previous Operator:** 

**Sun Oil Company** 

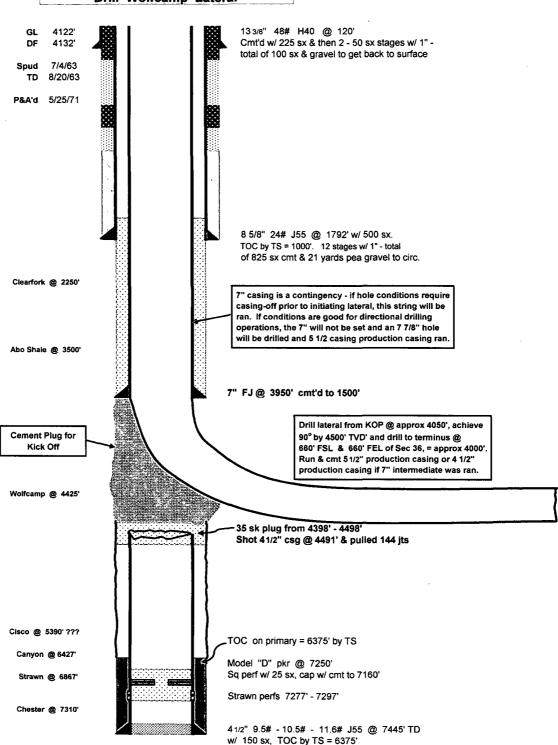
Former Property Name @ P&A:

South Hope Unit #2

P&A'd on 5/25/71

#### **Drill Wolfcamp Lateral**

7412' PB



### **BOLD ENERGY, LP**

Location:

Jezebel State #1

(API No. 30 – 015 – 10222)

660' FNL & 810' FEL
Section 36 - T18S - R21E
Eddy County, New Mexico

Work Scope: Re-enter P&A Wellbore, Evaluate Condition & Usability, Drill Wolfcamp Horizontal

### A. General Procedure to Cleanout & Evaluate Wellbore

- 1. Prep location & WH for re-entry operation using PU.
- 2. MIRU PU. Install 3000 psi WP BOP and test. RU reverse unit.
- 3. Drill out top plug w/ 7 7/8" MT bit and 4 3/4" DC's.
- 4. TIH w/ bit & DC's on 2 7/8" tbg, drill out plug 546' 646'. Continue in hole to 8 5/8" shoe plug @ approx 1742'.
- 5. Circ hole clean & test csg w/ 500 psi. If OK, proceed to Step 6. If failure, evaluate proceeding w/ re-entry. If decision is to cease operation, set cement plugs for abandonment per the requirements of the NMOCD.
- 6. Drill out shoe plug 1742' 1842' and wash down to plug at 3400'. Drill out plug 3400' 3500'.
- 7. Wash down to stub plug @ approx 4398'. Do not drill plug unless it is much higher than reported. Circ and condition hole & POH. Stand-back DC's.
- 8. Run OH logs if needed for correlation. Run GYRO Survey from GL to cleanout TD.
- 9. TIH w/ tbg to cleanout TD or depth determined sufficient for setting KOP plug. Spot cmt plug, pull tbg into 8 5/8" & WOC.
- 10. TIH & tag plug, if OK, POH and LD equipment. If TOC not high enough, repeat plug setting and tagging. If plug is too high, dress off with bit before LD all equipment and RDPU. Install "dry hole" cap. Remainder of operations will be conducted by a rotary rig.

See Page 2 for General Drilling Procedure if wellbore is determined to be useable for drilling a Wolfcamp horizontal.

### **BOLD ENERGY, LP**

Location:

Jezebel State #1

(API No. 30 – 015 – 10222)

660' FNL & 810' FEL Section 36 - T18S - R21E Eddy County, New Mexico

### B. General Procedure for Drilling Wolfcamp Horizontal Section

- 1. Prep location for drilling rig.
- 2. MIRU rotary drilling rig. Install 3000 psi BOP consisting of double ram and annular preventers. RU H<sub>2</sub>S monitoring equip.
- 3. MIRU Mud Logger and initiate services.
- 4. TIH w/ 7 7/8" TCI bit on  $4\frac{3}{4}$ " motor and directional drilling BHA on  $4\frac{1}{2}$ " DP. Mud specs for drilling open hole: cut brine, 8.7-8.9 ppg, Use viscous sweeps as needed to clean hole and/or mud up as required to maintain hole stability.
- 5. Build angle to 90° at 4500' TVD with an azimuth of approx 180°. Continue drilling lateral until 4000' of extension is reached (hard-line is 660' FSL & 660' FEL of section). At TD, circulate and condition mud and hole for casing. POH & LD directional drilling assembly.
- 6. Run 5½" 17# L-80 LTC production casing as follows:

1	5½" Float Shoe
1	5½" 17# L-80 LTC casing
1	5½" Float Shoe
+/- 8225'	5 1/2" 17# L-80 LTC casing

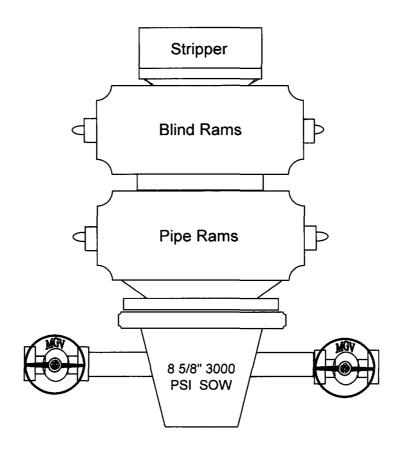
- 8. RU cementer and cement casing w/ 400 sx 35:65 POZ: Class "H" cont'g 5% salt, 6% gel, 0.25% fluid loss additive, and ¼# cello-flake / sk (mixed at 12.7 ppg) followed by 600 sx Class "H" cont'g 0.6% bonding additive, 0.4% dispersant, 1.0% fluid loss additive, 0.1% anti-settling additive, 0.4% sodium metasilicate and 20# calcium carbonate / sk (mixed @ 15.6 ppg).
- 9. ND BOP and install WH cap. Clean pits & release rig.
- 10. Completion procedure and stimulation design will be dependent on reservoir evaluation.

# **Bold Energy, LP**

### Jezebel State #1

### 3000 PSI Stack

# Installed for Wellbore Cleanout Using Pulling Unit

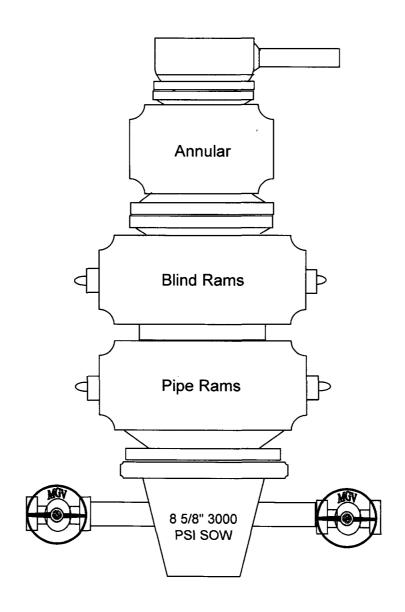


# **Bold Energy, LP**

### Jezebel State #1H

### 9" - 3000 PSI Stack

# Installed for Drilling Wolfcamp Horizontal





### **PathFinder** Planning Report - Geographic

Company: Bold Energy Field: Jezebel State Jezebel State #1 Site: Jezebel State #1 Well:

Wellpath: Jezebel State #1

Time: 16:55:56 Date: 1/16/2006 Co-ordinate(NE) Reference: Site: Jezebel State #1, Grid North

Vertical (TVD) Reference: System: Mean Sea Level Well (0.00N,0.00E,177.83Azi)

Section (VS) Reference: Plan:

Plan #1 1-16-06

Jezebel State Eddy Co. NM

USA

Map System: US State Plane Coordinate System 1927

Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level

Map Zone:

New Mexico, Eastern Zone

Page:

Coordinate System: Geomagnetic Model: Site Centre iarf2005

Site:

Jezebel State #1

Section 36 - T18S - R21 E

Eddy Co. NM

**Site Position:** Lease Line From: **Position Uncertainty:** 

Northing: Easting:

ft Latitude: Longitude:

North Reference: **Grid Convergence:** 

Grid -0.22 deg

Well:

**Ground Level:** 

Well Position:

**Current Datum:** 

Jezebel State #1

+N/-S +E/-W 0.00 ft Northing: 0.00 ft Easting:

622059.60 ft 374828.40 ft

Latitude: Longitude:

Slot Name:

32 42 34.124 N

Position Uncertainty:

0.00 ft

0.00 ft

0.00 ft

44 25.018 W

Wellpath: Jezebel State #1

0.00 ft

Height

+N/-S

ft

0.00

**Drilled From:** Tie-on Depth: **Above System Datum:**  Surface 0.00 ft

Magnetic Data: 1/16/2006 Field Strength: 49352 nT Vertical Section:

Plan #1 1-16-06

Depth From (TVD)

Declination: Mag Dip Angle: +E/-W

Mean Sea Level 8.78 deg 60.56 deg

ft 0.00 Direction deg

0.00

Mean Sea Level

**Date Composed:** Version:

1/16/2006

177.83

Principal: Yes

Plan:

Tied-to:

From Surface

#### **Plan Section Information**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4043.00	0.00	0.00	4043.00	0.00	0.00	0.00	0.00	0.00	0.00	
4760.85	90.00	177.83	4500.00	-456.67	17.30	12.54	12.54	0.00	177.83	
8266.69	90.00	177.83	4500.00	-3960.00	150.00	0.00	0.00	0.00	89.95	PBHL Jezebel ST. #1

#### Section 1: Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4043.00	0.00	0.00	4043.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

#### Section 2: Start Build 12.54

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/1001	Build t deg/100	Turn ft deg/100ft	TFO deg	
4203.26	20.09	177.83	4200.00	-27.79	1.05	27.81	12.54	12.54	0.00	0.00	
4452.73	51.37	177.83	4400.00	-171.57	6.50	171.69	12.54	12.54	0.00	0.00	
4760.00	89.89	177.83	4500.00	-455.82	17.27	456.15	12.54	12.54	0.00	0.00	

#### Section 3: Start DLS 0.00 TFO 89.95

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W	VS ft	DLS deg/100f	Build t deg/1001	Turn ft deg/100ft	TFO deg	
8266.69	90.00	177.83	4500.00	-3960.00	150.00	3962.84	0.00	0.00	0.00	0.90	



# **PathFinder** Planning Report - Geographic

Company: Bold Energy
Field: Jezebel State
Site: Jezebel State #1

Jezebel State #1 Wellpath: Jezebel State #1

Date: 1/16/2006 Time: 16:55:56 Page Co-ordinate(NE) Reference: Site: Jezebel State #1, Grid North Page:

Vertical (TVD) Reference: Section (VS) Reference: Plan:

System: Mean Sea Level Well (0.00N,0.00E,177,83Azi) Plan #1 1-16-06

Survey

Well:

	MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	< Lat Deg Mir	itude> Sec	< Lon Deg Mir	gitude> 1 Sec
l	4000.00	0.00	0.00	4000.00	0.00	0.00	622059.60	374828.40	32 42	34.124 N	104 44	25.018 W
ı	4043.00	0.00	0.00	4043.00	0.00	0.00	622059.60	374828.40	32 42	34.124 N	104 44	25.018 W
1	4203.26	20.09	177.83	4200.00	-27.79	1.05	622031.81	374829.45	32 42	33.849 N	104 44	25.004 W
	4452.73	51.37	177.83	4400.00	-171.57	6.50	621888.03	374834.90	32 42	32.426 N	104 44	24.934 W
ĺ	4760.00	89.89	177.83	4500.00	-455.82	17.27	621603.78	374845.67	32 42	29.614 N	104 44	24.795 W
	8266.69	90.00	177.83	4500.00	-3960.00	150.00	618099.60	374978.40	32 41	54.944 N	104 44	23.085 W

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	< Latitude> Deg Min Sec	< Longitude> Deg Min Sec
PBHL Jezebel S	Т. #1	4500.00	-3960.00	150.00	618099.60	374978.40	32 41 54.944 N	104 44 23.085 W

#### Annotation

MD TVD ft ft		
4043.00 4043.00 4760.00 4500.00	KOP @ 4043' MD End of Build @ 90° 4760'MD	

# **Bold Energy**



Jezebel State #1 Section 36 - T18S- R21E Eddy County, New Mexico Plan #1 01-16-06

#### WELLPATH DETAILS

Jezebel State #1

 Ref. Datum:
 Mean Sea Level
 0.00ft

 V.Section Angle
 Origin H-IV/S +E/-W From TVD
 Starting From TVD

 177.83°
 0.00
 0.00
 0.00

ANNOTATIONS

4043.00 KOP @ 4043' MD 4760.00 End of Build @ 90° 4760'MD

#### COMPANY DETAILS

SITE DETAILS

Bold Energy

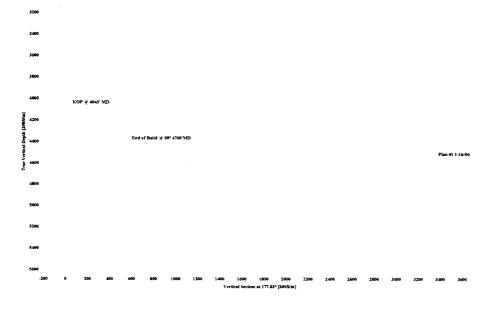
Calculation Method: Minimum Curvature Error System: Systematic Ellipse Scan Method: Closest Approach 3D Error Surface: Elliptical Conic Warning Method: Error Ratio Jezebel State #1 Section 36 - T18S - R21 E Eddy Co. NM

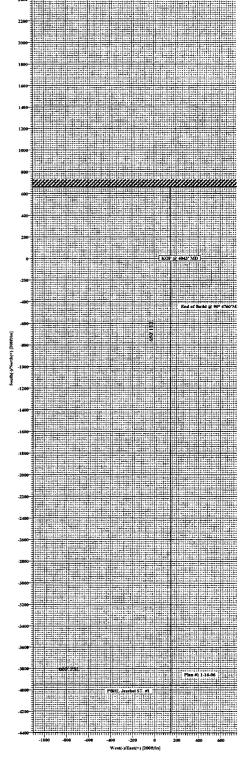
Water Depth: 0.00 sitional Uncertainty: 0.00 Convergence: -0.22

6c MD Inc Azi TVD +N/-S +E/-W DLeg TFace VSec Target  0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.				_S	ON DETAIL	SECTI					
4043.00 0.00 0.00 4043.00 0.00 0.00 0.00	arget	VSec	TFace	DLeg	+E/-W	+N/-S	TVD	Azi	Inc	MD	de
4760.85 90.00 177.83 4500.00 -456.67 17.30 12.54 177.83 457.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
		0.00	0.00	0.00	0.00	0.00	4043.00	0.00	0.00	4043.00	1
1 PACCO DODO 17797 150000 200000 15000 000 0006 2003 84 PRINT		457.00	177.83	12.54	17.30	-456.67	4500.00	177.83	90,00	4760.85	
6 8206.09 90,00 177.83 4300,00 -3960,00 130,00 0,00 89,93 3962.84 PBHL	BHL Jezebel ST. #1	3962.84	89.95	0.00	150.00	-3960.00	4500.00	177.83	90,00	8266.69	- [

Atzimuths to Grid North True North: 0.22° Magnetic North: 9.00°

> Magnetic Field Strength: 49352nT Dip Angle: 60.56 Date: 1/16/2006 Model: igrf2005





Plan Plan #1 1-16-06 (Jerobel Stare #1/deabel Stare #1)
Created By Robert Strage Date: 1/16/2006
Charlest



February 7, 2006

NMOCD 1301 W. Grand Avenue Artesia, New Mexico 88210

Re: Bold

Bold Energy, LP Jezebel State #1H

Wildcat; Wolfcamp Gas Field

660' FNL & 810' FEL Sec 36 - T18S - R21E Eddy County, New Mexico

Att: Bryan Arrant

#### Gentlemen:

This is to advise that Bold Energy, LP does not expect to encounter any formation drilled by the captioned well to contain hydrogen sulfide ( $H_2S$ ) gas and accordingly does not plan to file an  $H_2S$  Contingency Plan. Our research of offsetting wells has failed to identify any  $H_2S$  in the vicinity.

However, we do plan to have  $H_2S$  monitors on the rig and operational after cleaning out to the  $85/8^{\prime\prime}$  shoe on this re-entry project. If the monitors indicate a formation bearing this gas is penetrated, we will immediately take the necessary actions to protect operations personnel and the public and notification of appropriate regulatory agencies will be immediate.

Please advise if you have questions regarding this matter or need additional information. I can be reached at 432 / 683-8000.

Sincerely,

**Dan Dodd** 

Sierra Engineering for Bold Energy, LP