

Permit Comments

Operator: SOUTHWESTERN ENERGY PRODUCTION COMPANY , 148111

Well: KARLSBAD CORRAL 2 STATE #004H

User Name	Comment	Comment Date
JMBENDER	Proposed Program: Proposed to drill 12-1/4" hole to 750 w/fresh water, set surface csg, smt w/sufficient cmt to cover 500 above all oil and gas bearing zones. H2S Comment: We plan to complete this well in the Delaware and don not anticipate cutting any formations during the drilling of this well that contain H2S. Therefore we do not believe an H2S Contingency plan is necessary.	7/26/2005
BARRANT	Will require directional drill plan for approval.	8/2/2005
BARRANT	As not noted, please indicate what type of drilling fluid you plan to use for the 8 3/4" hole size. thank you	8/2/2005

PathFinder Energy Services

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Proposal Report

Date: 7/12/2005

Time: 4:52 pm

Wellpath ID: Plan #1

Last Revision: 7/12/2005

Calculated using the Minimum Curvature Method

Computed using PDS VER2.2.6

Vertical Section Plane: 0.00 deg.

Survey Reference: WELLHEAD

Vertical Section Reference: WELLHEAD

Closure Reference: WELLHEAD

TVD Reference: WELLHEAD

Southwestern Energy & Prod. Co.

Karlsbad Corral 2 #4-H

JW #3

Eddy Co. NM

Sec 2-T25S-R29E - Eddy Co. NM

Plan #1

SHL = 330' FSL - 1980' FWL

BHL = 2807.46' FSL - 1980' FWL

Shown with 2000' of Lateral after landing curve

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft) (ft)		Closure Dist. Dir. (ft) (deg.)		DLS (dg/100ft)
KOP / TIE IN / START OF BUILD @ 12.00 deg/100 ft										
4802.54	0.00	0.00	0.00	4802.54	0.00	0.00N	0.00 E	0.00@	0.00	0.00
5002.54	24.00	0.00	200.00	4996.74	41.28	41.28N	0.00 E	41.28@	0.00	12.00
5202.54	48.00	0.00	200.00	5157.36	157.98	157.98N	0.00 E	157.98@	0.00	12.00
5402.54	72.00	0.00	200.00	5256.63	329.92	329.92N	0.00 E	329.92@	0.00	12.00
Landing in CC 4 / START OF DROP @ 0.00 deg/100 ft										
5552.54	90.00	0.00	150.00	5280.00	477.46	477.46N	0.00 E	477.46@	0.00	12.00
6052.54	90.00	0.00	500.00	5280.00	977.46	977.46N	0.00 E	977.46@	0.00	0.00
6552.54	90.00	0.00	500.00	5279.99	1477.46	1477.46N	0.00 E	1477.46@	0.00	0.00
7052.54	90.00	0.00	500.00	5280.00	1977.46	1977.46N	0.00 E	1977.46@	0.00	0.00
PBHL										
7552.54	90.00	0.00	500.00	5280.00	2477.46	2477.46N	0.00 E	2477.46@	0.00	0.00

Southwestern Energy & Prod. Co.
Karlsbad Corral 2 #4-H

JW #3

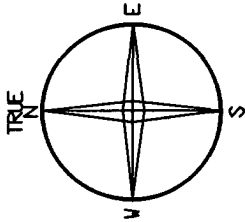
Eddy Co, NM

Sec 2-T25S-R29E - Eddy Co, NM
Plan #1

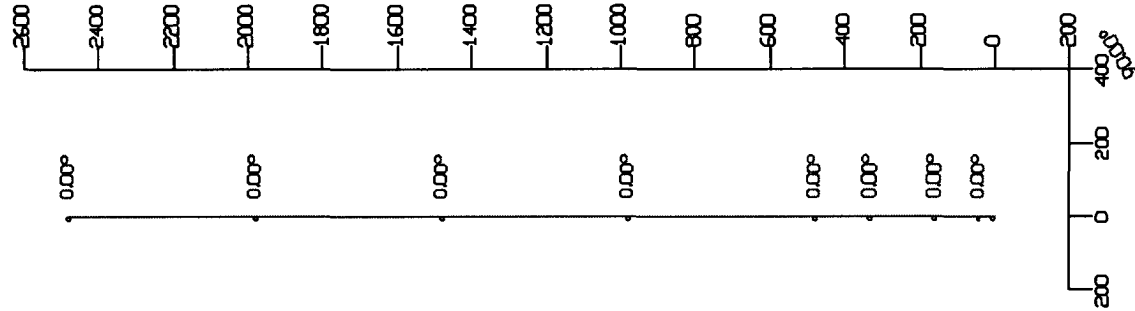
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HORIZONTAL VIEW
SCALE 200' ft. / DIVISION
SURVEY REF: WELL-HEAD



PROPOSED BHL	
TVD	5280.00
MD	7552.54
VS	2477.46 N
EW	0.00 E

CRITICAL POINT DATA					
KCP / TIE IN / START OF BUILD @ 12.00°/100 ft	MD	InC	Azi	TVD	N/S
Landing in OC 4	4803	0.00°	0.00°	4803	0 N
START OF BUILD @ 12.00°/100 ft	5553	90.00°	0.00°	5280	477 N
TIE IN @ 0.00°/100 ft	7553	90.00°	0.00°	5280	2477 N
PBHL					0 E

VERTICAL VIEW
SCALE 200' ft. / DIVISION
TVD REF: WELL-HEAD
VERTICAL SECTION REF: WELL-HEAD

