



**Southwestern Energy
Production Company**

A subsidiary of Southwestern Energy Company

Rec: 10-28-2005
Susp: 11-17-2005
PMES0-532630593
2350 N. Sam Houston Parkway East
Suite 300
Houston, Texas 77032
(281) 618-4700 FAX: (281) 618-4757

October 27, 2005

RECEIVED

OCT 28 2005

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

Michael E. Stogner
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Dear Mr. Stogner:

Pursuant to Division Rule 104.F.(2), Southwestern Energy Production Company is requesting approval for of an unorthodox oil well location for the following well:

Well: Karlsbad Corral 11 Well No. 3-H
Location: 10 feet FNL & 1980 feet FEL
Well Unit: *NW 1/4 NE 1/4 and SW 1/4 NE 1/4*
NE 1/4 NW 1/4 of Section 11, Township 25 South, Range 29 East,
N.M.P.M., Eddy County, New Mexico

The well will be drilled to test the Cherry Canyon 4 formation (Corral Fly, Delaware Pool). The pool is spaced on 40 acres, with wells to be located no closer than 330 feet to a quarter-quarter section line and for the subject well an exception to this 330' requirement is requested. A form C-102 is attached as Exhibit A.

The proposed location is based on engineering reasons. The proposed well, Karlsbad Corral 11 #3-H, will be directionally drilled from an unorthodox surface location 10 feet from the North Line and 1980 feet from the East Line of Section 11 to a bottom hole location 2,485 feet from the North Line and 1,980 feet from the East line.

The well plan consists of drilling a vertical hole to the KOP (kick off point) at 4,840' MD/TVD. The hole will be directional drilled utilizing a build rate of 12°/100' to penetrate the Cherry Canyon 4 Sand at 5,590' MD / 5,317' TVD at 90° of angle. The Cherry Canyon 4 will be intersected at 487' FNL and 1980' FEL of Section 11 T25S R29E. The well will continue laterally (90°) for 2000' of lateral vertical displacement. The proposed BHL will be 2,485' FNL & 1,980' FEL of Section 11. The top of the Delaware will be intersected at ±3200' MD/TVD at 10' FNL and 1980' FEL of Section 11. A drilling prognosis, directional plot, and proposed survey report are attached as Exhibit B.

Production casing will be run and cemented to TD. The Cherry Canyon 4 Sand will be selectively perforated, with all perforations being placed in accordance of a standard location of Section 11 T25S R29E (greater than 330' from any lease line).

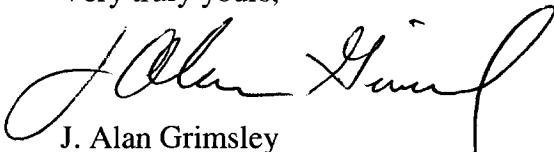
By placing the surface location at 10' FNL and 1980' FEL of Section 2, the maximum amount of reservoir rock in the Cherry Canyon 4 Sand in the producing area can be penetrated and produced. .

Furthermore, Southwestern Energy Production Company has gained access to the mineral interests to the Cherry Canyon formation in the Delaware Mountain Group of Section 11 and Section 2 via farmout agreements with EOG (Lease Serial No. 3633-2), and Devon Energy (Lease Serial No. V-3361), respectfully. Drilling commitment deadlines have been extended in both of these agreements, but require a new well to be drilled in Section 11 by January 5th. A land plat is attached as Exhibit C.

Your timely approval of this unorthodox location is requested in order to meet the above mentioned farmout requirements.

If you have any questions, I can be reached at 281-618-4068.

Very truly yours,



J. Alan Grimsley
Southwestern Energy Production Co.

1:57 PM 11-21-2005
Voice Mail Message from
Alan Grimsley wanting to know
about his order

Attachments
CC: District 2

State of New Mexico

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION

Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 CopiesDISTRICT III
1000 Rio Brazos Rd., Aztec, NM 874101220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name KARLSBAD CORRAL 11	Well Number 3H
OGRID No.	Operator Name SOUTHWESTERN ENERGY PRODUCTION COMPANY	Elevation 3065'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	11	25-S	29-E		10	NORTH	1980	EAST	EDDY

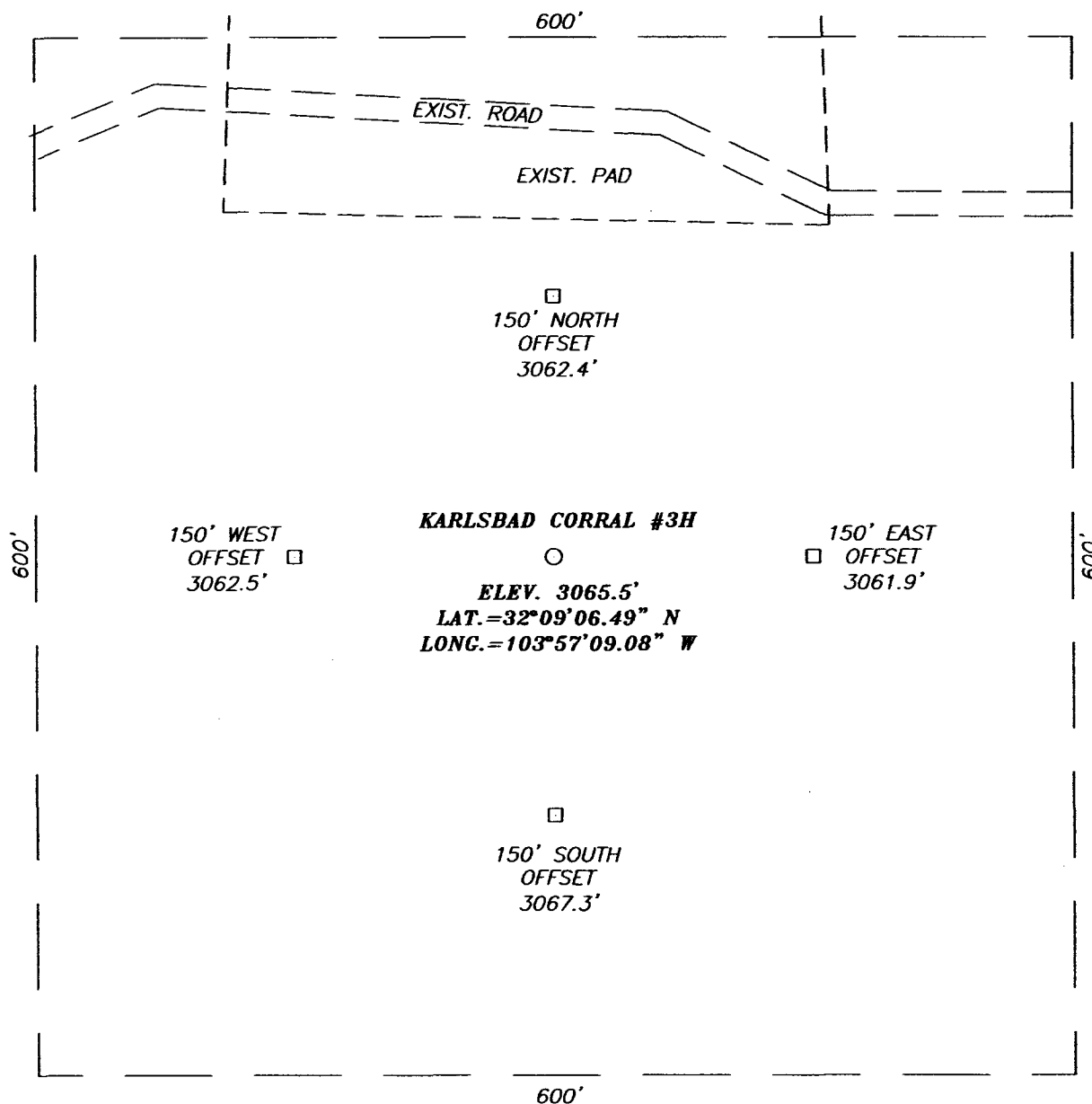
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	11	25-S	29-E		2485	NORTH	1980	EAST	EDDY
Dedicated Acres 80	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

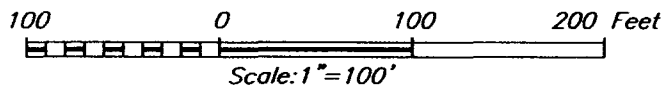
2 11 GEODETIC COORDINATES NAD 27 NME Y=419155.5 N X=617855.2 E LAT.=32°09'06.49" N LONG.=103°57'09.08" W BOTTOM HOLE LOCATION Y=416680.9 N X=617873.0 E		S.L. 10' 2485' GRID AZ = 179°35'13" DIST. = 2475' B.H. 1980'		2 11	
		OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>J. Allen Grimsley</i> Signature J. Allen Grimsley Printed Name Drilling Engineer Title 10/27/05 Date		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. OCTOBER 13, 2005 Date Surveyed LA REV: 10/26/05 Signature & Seal of Professional Surveyor <i>Ronald J. Eibson</i> 05.11.1622 Certificate No. RONALD J. EIBSON 3239	

SECTION 11, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. #128 AND BUCK JACKSON RD. GO SOUTHWEST ON BUCK JACKSON RD. APPROX. 16.5 MILES TO THE INTERSECTION OF BUCK JACKSON ROAD AND TWIN WELLS RD. TURN RIGHT ON TWIN WELLS RD. AND GO APPROX. 500 FEET. TURN LEFT AND GO SOUTHWEST APPROX. 3.0 MILES. TURN RIGHT AND GO NORTHWEST APPROX. 1.4 MILES. TURN RIGHT AND GO NORTH APPROX. 4.1 MILES. THIS LOCATION IS SOUTH OF THE EXISTING KARLSBAD CORRAL 2 #1H WELL APPROX. 340 FEET.



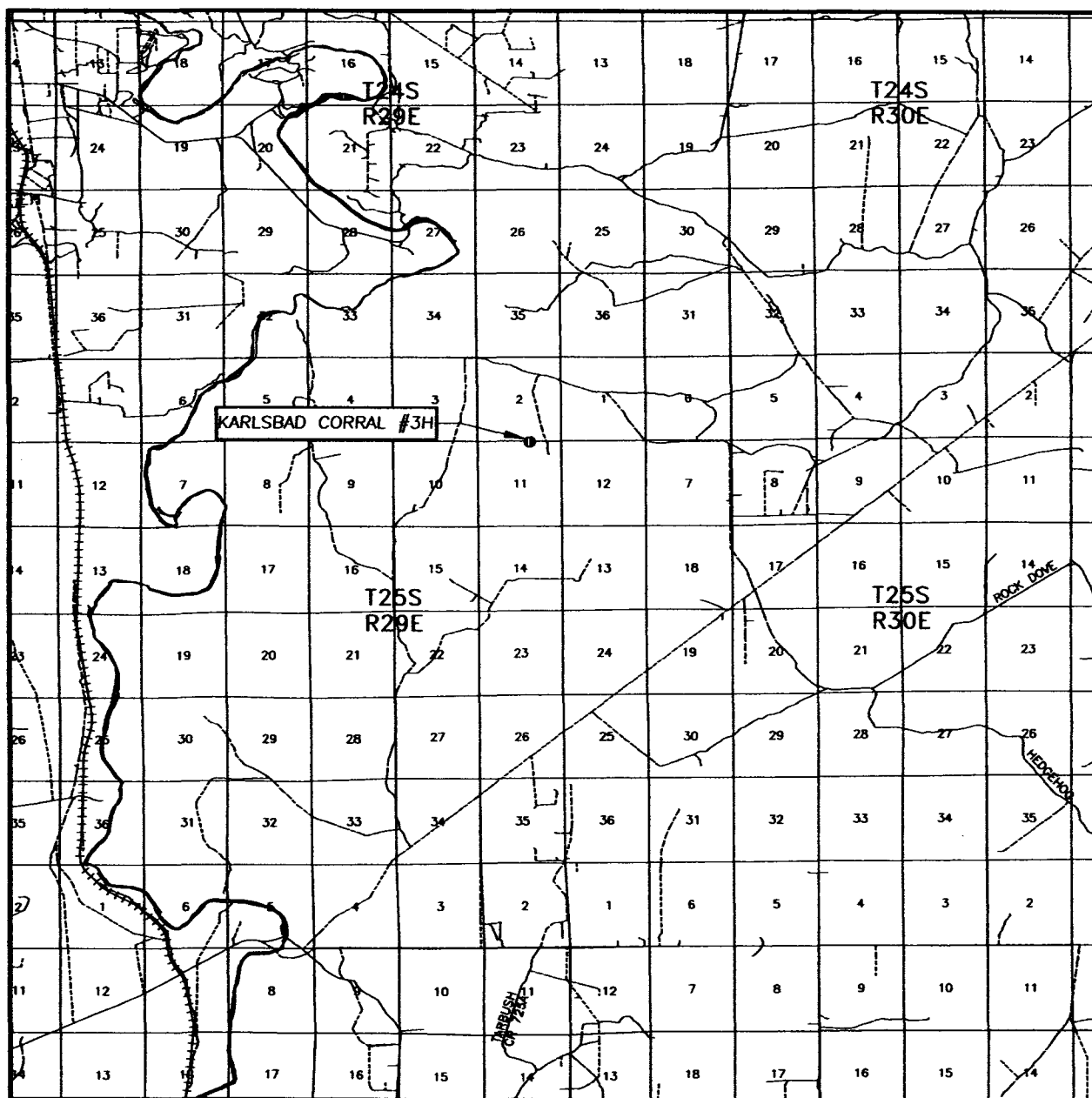
PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBBS, N.M. 88240
 (505) 383-3117

SOUTHWESTERN ENERGY PRODUCTION COMPANY

KARLSBAD CORRAL #3H WELL
 LOCATED 10 FEET FROM THE NORTH LINE
 AND 1980 FEET FROM THE EAST LINE OF SECTION 11,
 TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

Survey Date: 10/13/05	Sheet 1 of 1 Sheets
W.O. Number: 05.11.1622	Dr By: LA Rev 1:N/A
Date: 10/19/05	Disk: CD#4 05111622 Scale: 1"=100'

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 11 TWP. 25-S RGE. 29-E

SURVEY N.M.P.M.

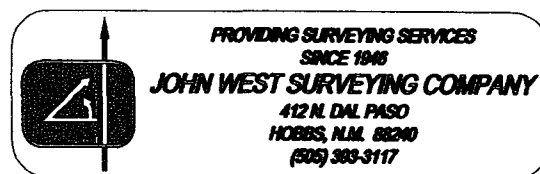
COUNTY EDDY

DESCRIPTION 10' FNL & 1980' FEL

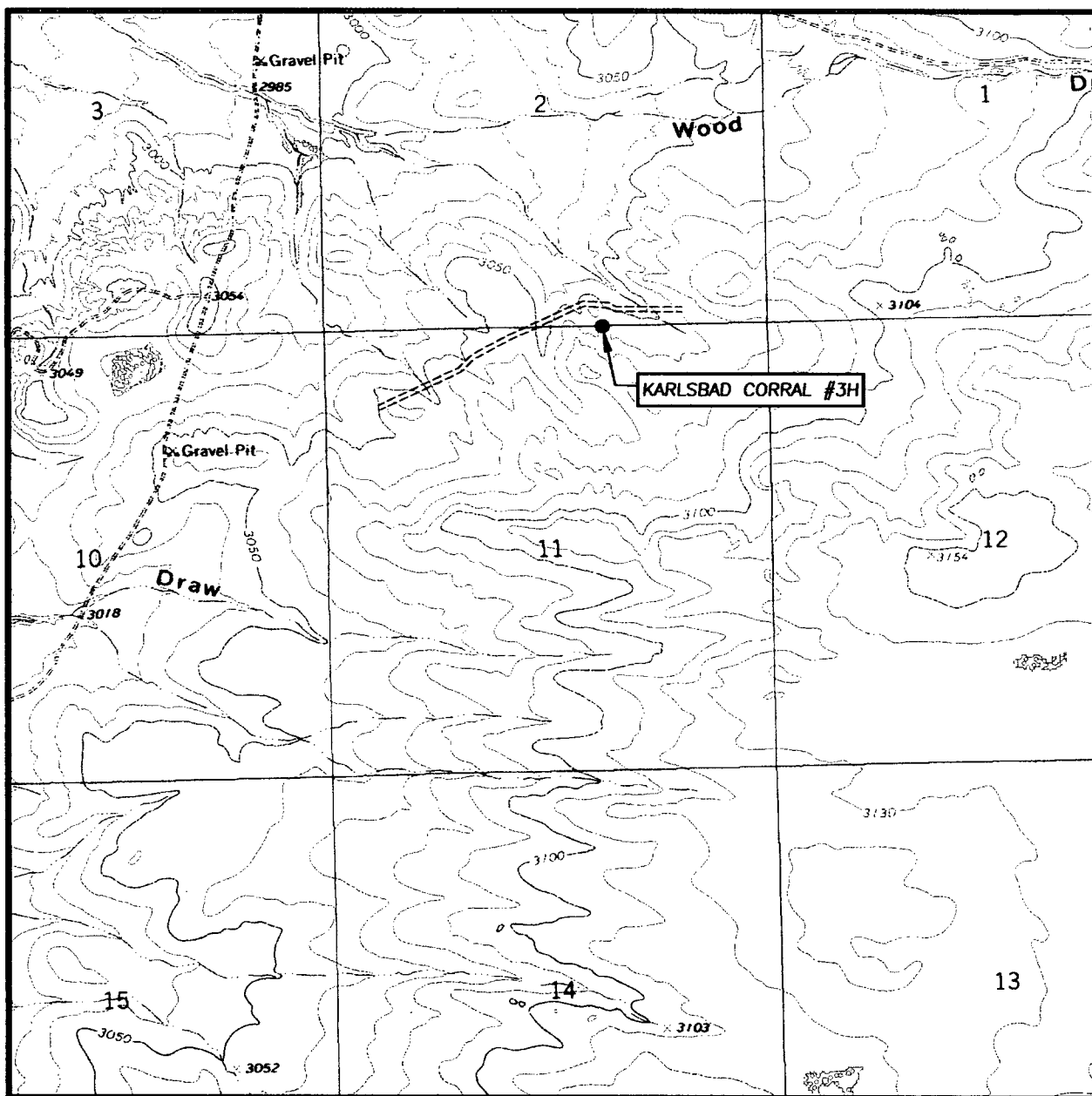
ELEVATION 3065'

OPERATOR SOUTHWESTERN ENERGY
PRODUCTION COMPANY

LEASE KARLSBAD CORRAL



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
PIERCE CANYON, N.M. - 10'

SEC. 11 TWP. 25-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY

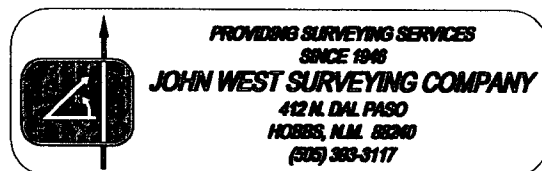
DESCRIPTION 10' FNL & 1980' FEL

ELEVATION 3065'

OPERATOR SOUTHWESTERN ENERGY
PRODUCTION COMPANY

LEASE KARLSBAD CORRAL

U.S.G.S. TOPOGRAPHIC MAP
PIERCE CANYON, N.M.





DRILLING PROGNOSIS
Southwestern Energy Production Company

WELL NAME: Karslbard Corral Fly 11 #3-H

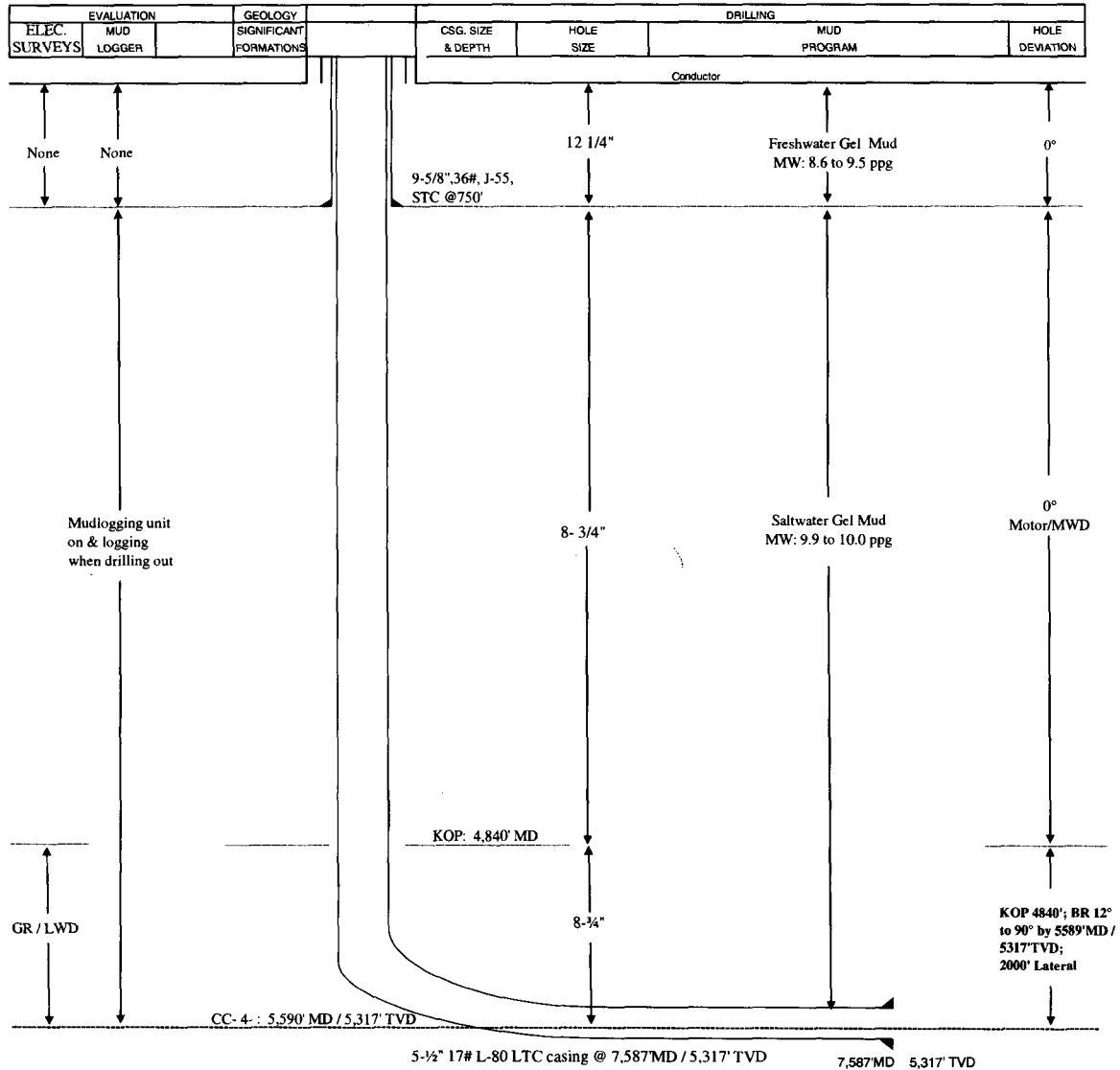
AFE NO.

LOCATION: Sec. 11, T25S, R29E
Eddy County NM
SL: 10' FNL 1980' FEL
BHL: 2485' FNL 1980' FEL
TGT ENTRY PT: 487' FSL 1980' FEL

PROSPECT: Corral Fly

OBJECTIVE: Cherry Canyon Sd, CC-4

EST. ELEVATION: GL 3065'; RKB $\pm 25''$



Gr. Elev. -3065' RKB-25' RKB Elev. -3090'
Est. Top CC4 - 5,317' TVD
Est. Btm CC4 - 5317' TVD

Southwestern Energy Production Co.

Karlsbad Corral 11 #3-H

Section 11, T25-S, R29-E

Eddy County, New Mexico

Plan #1 10/13/05

SITE DETAILS

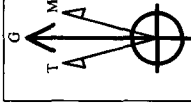
Karlsbad Corral 11 #3-H
10' FNL & 1980' FEL Section 11

Site Centre Latitude: 32°09'03.350N
Longitude: 103°57'09.000W

Ground Level: 3063.00
Positional Uncertainty: 0.00
Convergence: 0.20

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape	Point
PBHL 11 #3-H	5317.00	-2475.00	0.00	Point	



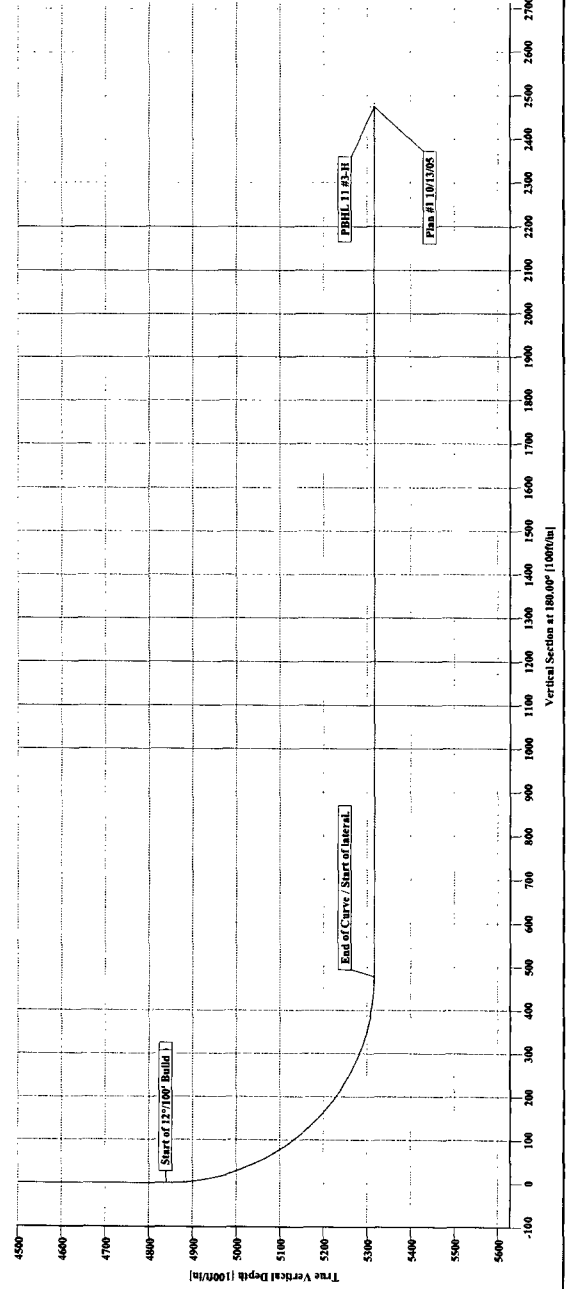
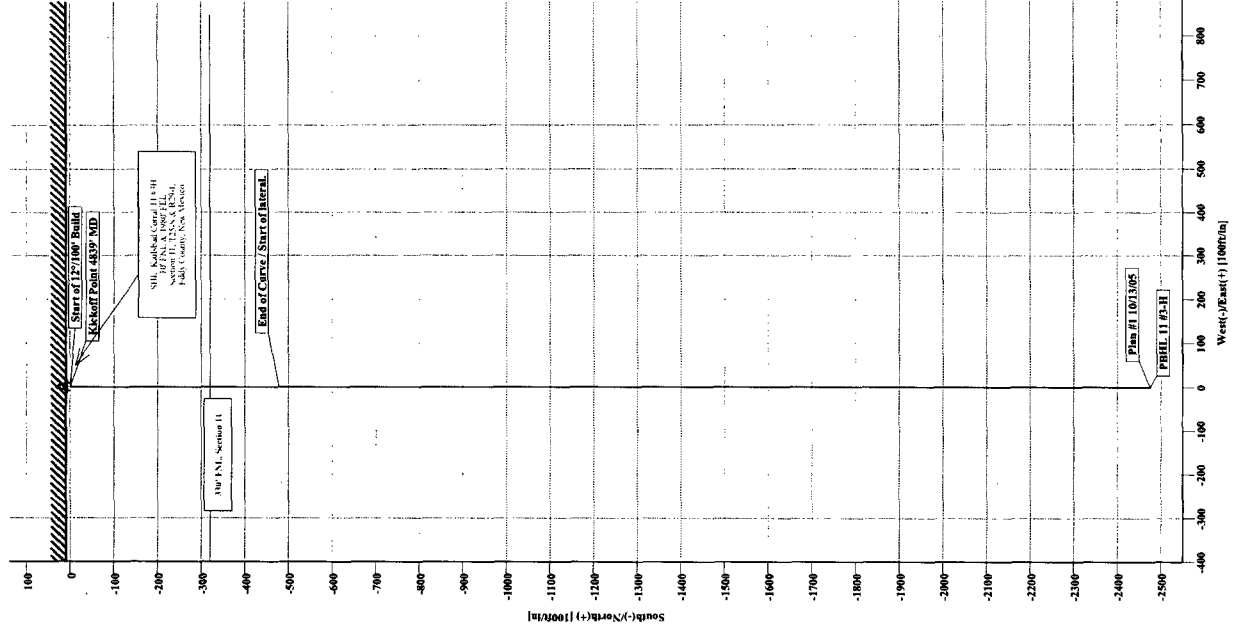
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4839.50	0.00	0.00	4839.50	0.00	0.00	0.00	0.00	0.00	
3	5589.56	90.00	180.00	5317.00	-477.50	180.00	12.00	180.00	477.50	
4	7587.06	90.00	180.00	5317.00	-2475.00	0.00	0.00	0.00	2475.00	PBHL 11 #3-H

ANNOTATIONS

No.	TVD	MD	Annotation
1	4839.50	4839.50	Kickoff Point 4839' MD
2	4839.00	4839.00	Start of 12°/100' Build
3	5317.00	5590.00	End of Curve / Start of lateral.

Magnetic Azimuth Apply: 8.21° to convert to Grid North



PathFinder

Planning Report

Company: Southwestern Energy Production Field: Karlsbad Corral Section 11 Site: Karlsbad Corral 11 #3-H Well: Karlsbad Corral 11 #3-H Wellpath: Karlsbad Corral 11 #3H	Date: 10/13/2005 Co-ordinate(NE) Reference: SITE 0.0 Vertical (TVD) Reference: Well (0.00N,0.00E,180.00Azi) Section (VS) Reference: Plan #1 10/13/05 Plan:	Time: 15:26:54 Site: Karlsbad Corral 11 #3-H, Grid Nort Vertical (TVD) Reference: SITE 0.0 Well (0.00N,0.00E,180.00Azi) Plan #1 10/13/05	Page: 1
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Field: Karlsbad Corral Section 11

Map System: US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Site Centre
Geomagnetic Model: igrf2005

Site: Karlsbad Corral 11 #3-H

10' FNL & 1980' FEL Section 11

Site Position:	Northing: 418838.41 ft	Latitude: 32 9 3.350 N
From: Geographic	Easting: 617862.90 ft	Longitude: 103 57 9.000 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3063.00 ft		Grid Convergence: 0.20 deg

Well: Karlsbad Corral 11 #3-H

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 418838.41 ft	Latitude: 32 9 3.350 N
+E/-W 0.00 ft	Easting: 617862.90 ft	Longitude: 103 57 9.000 W
Position Uncertainty: 0.00 ft		

Wellpath: Karlsbad Corral 11 #3H

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 8.42 deg
Mag Dip Angle: 60.19 deg
+E/-W **Direction**
 ft deg

Current Datum: SITE
Magnetic Data: 10/13/2005
Field Strength: 49135 nT
Vertical Section: Depth From (TVD) ft
 0.00 0.00 0.00 180.00

Plan: Plan #1 10/13/05

Date Composed: 10/13/2005
Version: 1
Tied-to: From Surface

Principal: Yes

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	
4839.50	0.00	0.00	4839.50	0.00	0.00	0.00	0.00	0.00	0.00	
5589.56	90.00	180.00	5317.00	-477.50	0.00	12.00	12.00	0.00	180.00	
7587.06	90.00	180.00	5317.00	-2475.00	0.00	0.00	0.00	0.00	0.00	PBHL 11 #3-H

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
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4839.00	0.00	0.00	4839.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4839.50	0.00	0.00	4839.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Section 2 : Start Build 12.00

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
4850.00	1.26	180.00	4850.00	-0.12	0.00	0.12	12.00	12.00	0.00	0.00
4875.00	4.26	180.00	4874.97	-1.32	0.00	1.32	12.00	12.00	0.00	0.00
4900.00	7.26	180.00	4899.84	-3.83	0.00	3.83	12.00	12.00	0.00	0.00
4925.00	10.26	180.00	4924.54	-7.63	0.00	7.63	12.00	12.00	0.00	0.00
4950.00	13.26	180.00	4949.02	-12.73	0.00	12.73	12.00	12.00	0.00	0.00
4975.00	16.26	180.00	4973.19	-19.10	0.00	19.10	12.00	12.00	0.00	0.00
5000.00	19.26	180.00	4996.99	-26.72	0.00	26.72	12.00	12.00	0.00	0.00
5025.00	22.26	180.00	5020.37	-35.58	0.00	35.58	12.00	12.00	0.00	0.00
5050.00	25.26	180.00	5043.25	-45.65	0.00	45.65	12.00	12.00	0.00	0.00
5075.00	28.26	180.00	5065.57	-56.91	0.00	56.91	12.00	12.00	0.00	0.00
5100.00	31.26	180.00	5087.27	-69.31	0.00	69.31	12.00	12.00	0.00	0.00

PathFinder

Planning Report

Company: Southwestern Energy Production
Field: Karlsbad Corral Section 11
Site: Karlsbad Corral 11 #3-H
Well: Karlsbad Corral 11 #3-H
Wellpath: Karlsbad Corral 11 #3H

Date: 10/13/2005 **Time:** 15:26:54 **Page:** 2
Co-ordinate(NE) Reference: Site: Karlsbad Corral 11 #3-H, Grid Nort
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)
Plan: Plan #1 10/13/05

Section 2 : Start Build 12.00

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
5125.00	34.26	180.00	5108.29	-82.84	0.00	82.84	12.00	12.00	0.00	0.00
5150.00	37.26	180.00	5128.58	-97.45	0.00	97.45	12.00	12.00	0.00	0.00
5175.00	40.26	180.00	5148.07	-113.09	0.00	113.09	12.00	12.00	0.00	0.00
5200.00	43.26	180.00	5166.72	-129.74	0.00	129.74	12.00	12.00	0.00	0.00
5225.00	46.26	180.00	5184.47	-147.34	0.00	147.34	12.00	12.00	0.00	0.00
5250.00	49.26	180.00	5201.27	-165.85	0.00	165.85	12.00	12.00	0.00	0.00
5275.00	52.26	180.00	5217.09	-185.21	0.00	185.21	12.00	12.00	0.00	0.00
5300.00	55.26	180.00	5231.86	-205.37	0.00	205.37	12.00	12.00	0.00	0.00
5325.00	58.26	180.00	5245.57	-226.27	0.00	226.27	12.00	12.00	0.00	0.00
5350.00	61.26	180.00	5258.16	-247.87	0.00	247.87	12.00	12.00	0.00	0.00
5375.00	64.26	180.00	5269.60	-270.09	0.00	270.09	12.00	12.00	0.00	0.00
5400.00	67.26	180.00	5279.87	-292.88	0.00	292.88	12.00	12.00	0.00	0.00
5425.00	70.25	180.00	5288.93	-316.18	0.00	316.18	12.00	12.00	0.00	0.00
5450.00	73.25	180.00	5296.75	-339.92	0.00	339.92	12.00	12.00	0.00	0.00
5475.00	76.25	180.00	5303.32	-364.04	0.00	364.04	12.00	12.00	0.00	0.00
5500.00	79.25	180.00	5308.63	-388.47	0.00	388.47	12.00	12.00	0.00	0.00
5525.00	82.25	180.00	5312.64	-413.14	0.00	413.14	12.00	12.00	0.00	0.00
5550.00	85.25	180.00	5315.36	-437.99	0.00	437.99	12.00	12.00	0.00	0.00
5575.00	88.25	180.00	5316.78	-462.95	0.00	462.95	12.00	12.00	0.00	0.00
5589.56	90.00	180.00	5317.00	-477.50	0.00	477.50	12.00	12.00	0.00	0.00

Section 3 : 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
5590.00	90.00	180.00	5317.00	-477.94	0.00	477.94	0.00	0.00	0.00	0.00
5600.00	90.00	180.00	5317.00	-487.94	0.00	487.94	0.00	0.00	0.00	0.00
5700.00	90.00	180.00	5317.00	-587.94	0.00	587.94	0.00	0.00	0.00	0.00
5800.00	90.00	180.00	5317.00	-687.94	0.00	687.94	0.00	0.00	0.00	0.00
5900.00	90.00	180.00	5317.00	-787.94	0.00	787.94	0.00	0.00	0.00	0.00
6000.00	90.00	180.00	5317.00	-887.94	0.00	887.94	0.00	0.00	0.00	0.00
6100.00	90.00	180.00	5317.00	-987.94	0.00	987.94	0.00	0.00	0.00	0.00
6200.00	90.00	180.00	5317.00	-1087.94	0.00	1087.94	0.00	0.00	0.00	0.00
6300.00	90.00	180.00	5317.00	-1187.94	0.00	1187.94	0.00	0.00	0.00	0.00
6400.00	90.00	180.00	5317.00	-1287.94	0.00	1287.94	0.00	0.00	0.00	0.00
6500.00	90.00	180.00	5317.00	-1387.94	0.00	1387.94	0.00	0.00	0.00	0.00
6600.00	90.00	180.00	5317.00	-1487.94	0.00	1487.94	0.00	0.00	0.00	0.00
6700.00	90.00	180.00	5317.00	-1587.94	0.00	1587.94	0.00	0.00	0.00	0.00
6800.00	90.00	180.00	5317.00	-1687.94	0.00	1687.94	0.00	0.00	0.00	0.00
6900.00	90.00	180.00	5317.00	-1787.94	0.00	1787.94	0.00	0.00	0.00	0.00
7000.00	90.00	180.00	5317.00	-1887.94	0.00	1887.94	0.00	0.00	0.00	0.00
7100.00	90.00	180.00	5317.00	-1987.94	0.00	1987.94	0.00	0.00	0.00	0.00
7200.00	90.00	180.00	5317.00	-2087.94	0.00	2087.94	0.00	0.00	0.00	0.00
7300.00	90.00	180.00	5317.00	-2187.94	0.00	2187.94	0.00	0.00	0.00	0.00
7400.00	90.00	180.00	5317.00	-2287.94	0.00	2287.94	0.00	0.00	0.00	0.00
7500.00	90.00	180.00	5317.00	-2387.94	0.00	2387.94	0.00	0.00	0.00	0.00
7587.06	90.00	180.00	5317.00	-2475.00	0.00	2475.00	0.00	0.00	0.00	0.00

Survey

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	Tool/Comment
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	Start of 12°/100' Build Kickoff Point 4839' MD
4839.00	0.00	0.00	4839.00	0.00	0.00	0.00	0.00	0.00	0.00	
4839.50	0.00	0.00	4839.50	0.00	0.00	0.00	0.00	0.00	0.00	
4850.00	1.26	180.00	4850.00	-0.12	0.00	0.12	12.00	12.00	0.00	
4875.00	4.26	180.00	4874.97	-1.32	0.00	1.32	12.00	12.00	0.00	
4900.00	7.26	180.00	4899.84	-3.83	0.00	3.83	12.00	12.00	0.00	
4925.00	10.26	180.00	4924.54	-7.63	0.00	7.63	12.00	12.00	0.00	
4950.00	13.26	180.00	4949.02	-12.73	0.00	12.73	12.00	12.00	0.00	
4975.00	16.26	180.00	4973.19	-19.10	0.00	19.10	12.00	12.00	0.00	
5000.00	19.26	180.00	4996.99	-26.72	0.00	26.72	12.00	12.00	0.00	

PathFinder

Planning Report

Company: Southwestern Energy Production
Field: Karlsbad Corral Section 11
Site: Karlsbad Corral 11 #3-H
Well: Karlsbad Corral 11 #3-H
Wellpath: Karlsbad Corral 11 #3H

Date: 10/13/2005 **Time:** 15:26:54 **Page:** 3
Co-ordinate(NE) Reference: Site: Karlsbad Corral 11 #3-H, Grid Nort
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)
Plan: Plan #1 10/13/05

Survey

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	Tool/Comment
5025.00	22.26	180.00	5020.37	-35.58	0.00	35.58	12.00	12.00	0.00	
5050.00	25.26	180.00	5043.25	-45.65	0.00	45.65	12.00	12.00	0.00	
5075.00	28.26	180.00	5065.57	-56.91	0.00	56.91	12.00	12.00	0.00	
5100.00	31.26	180.00	5087.27	-69.31	0.00	69.31	12.00	12.00	0.00	
5125.00	34.26	180.00	5108.29	-82.84	0.00	82.84	12.00	12.00	0.00	
5150.00	37.26	180.00	5128.58	-97.45	0.00	97.45	12.00	12.00	0.00	
5175.00	40.26	180.00	5148.07	-113.09	0.00	113.09	12.00	12.00	0.00	
5200.00	43.26	180.00	5166.72	-129.74	0.00	129.74	12.00	12.00	0.00	
5225.00	46.26	180.00	5184.47	-147.34	0.00	147.34	12.00	12.00	0.00	
5250.00	49.26	180.00	5201.27	-165.85	0.00	165.85	12.00	12.00	0.00	
5275.00	52.26	180.00	5217.09	-185.21	0.00	185.21	12.00	12.00	0.00	
5300.00	55.26	180.00	5231.86	-205.37	0.00	205.37	12.00	12.00	0.00	
5325.00	58.26	180.00	5245.57	-226.27	0.00	226.27	12.00	12.00	0.00	
5350.00	61.26	180.00	5258.16	-247.87	0.00	247.87	12.00	12.00	0.00	
5375.00	64.26	180.00	5269.60	-270.09	0.00	270.09	12.00	12.00	0.00	
5400.00	67.26	180.00	5279.87	-292.88	0.00	292.88	12.00	12.00	0.00	
5425.00	70.25	180.00	5288.93	-316.18	0.00	316.18	12.00	12.00	0.00	
5450.00	73.25	180.00	5296.75	-339.92	0.00	339.92	12.00	12.00	0.00	
5475.00	76.25	180.00	5303.32	-364.04	0.00	364.04	12.00	12.00	0.00	
5500.00	79.25	180.00	5308.63	-388.47	0.00	388.47	12.00	12.00	0.00	
5525.00	82.25	180.00	5312.64	-413.14	0.00	413.14	12.00	12.00	0.00	
5550.00	85.25	180.00	5315.36	-437.99	0.00	437.99	12.00	12.00	0.00	
5575.00	88.25	180.00	5316.78	-462.95	0.00	462.95	12.00	12.00	0.00	
5589.56	90.00	180.00	5317.00	-477.50	0.00	477.50	12.00	12.00	0.00	
5590.00	90.00	180.00	5317.00	-477.94	0.00	477.94	0.00	0.00	0.00	End of Curve / Start of I
5600.00	90.00	180.00	5317.00	-487.94	0.00	487.94	0.00	0.00	0.00	
5700.00	90.00	180.00	5317.00	-587.94	0.00	587.94	0.00	0.00	0.00	
5800.00	90.00	180.00	5317.00	-687.94	0.00	687.94	0.00	0.00	0.00	
5900.00	90.00	180.00	5317.00	-787.94	0.00	787.94	0.00	0.00	0.00	
6000.00	90.00	180.00	5317.00	-887.94	0.00	887.94	0.00	0.00	0.00	
6100.00	90.00	180.00	5317.00	-987.94	0.00	987.94	0.00	0.00	0.00	
6200.00	90.00	180.00	5317.00	-1087.94	0.00	1087.94	0.00	0.00	0.00	
6300.00	90.00	180.00	5317.00	-1187.94	0.00	1187.94	0.00	0.00	0.00	
6400.00	90.00	180.00	5317.00	-1287.94	0.00	1287.94	0.00	0.00	0.00	
6500.00	90.00	180.00	5317.00	-1387.94	0.00	1387.94	0.00	0.00	0.00	
6600.00	90.00	180.00	5317.00	-1487.94	0.00	1487.94	0.00	0.00	0.00	
6700.00	90.00	180.00	5317.00	-1587.94	0.00	1587.94	0.00	0.00	0.00	
6800.00	90.00	180.00	5317.00	-1687.94	0.00	1687.94	0.00	0.00	0.00	
6900.00	90.00	180.00	5317.00	-1787.94	0.00	1787.94	0.00	0.00	0.00	
7000.00	90.00	180.00	5317.00	-1887.94	0.00	1887.94	0.00	0.00	0.00	
7100.00	90.00	180.00	5317.00	-1987.94	0.00	1987.94	0.00	0.00	0.00	
7200.00	90.00	180.00	5317.00	-2087.94	0.00	2087.94	0.00	0.00	0.00	
7300.00	90.00	180.00	5317.00	-2187.94	0.00	2187.94	0.00	0.00	0.00	
7400.00	90.00	180.00	5317.00	-2287.94	0.00	2287.94	0.00	0.00	0.00	
7500.00	90.00	180.00	5317.00	-2387.94	0.00	2387.94	0.00	0.00	0.00	
7587.06	90.00	180.00	5317.00	-2475.00	0.00	2475.00	0.00	0.00	0.00	PBHL 11 #3-H

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 11 #3-H			5317.00	-2475.00	0.00	416363.41	617862.90	32 8 38.857 N	103 57 9.102 W

PathFinder Planning Report

Company: Southwestern Energy Production
Field: Karlsbad Corral Section 11
Site: Karlsbad Corral 11 #3-H
Well: Karlsbad Corral 11 #3-H
Wellpath: Karlsbad Corral 11 #3H

Date: 10/13/2005 **Time:** 15:26:54 **Page:** 4
Co-ordinate(NE) Reference: Site: Karlsbad Corral 11 #3-H, Grid Nort
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N;0.00E,180.00Azi)
Plan: Plan #1 10/13/05

Annotation

MD ft	TVD ft	
4839.50	4839.50	Kickoff Point 4839' MD
4839.00	4839.00	Start of 12°/100' Build
5590.00	5317.00	End of Curve / Start of lateral.

