

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

Form C-101
June 16, 2008

RECEIVED

DEC 23 2009

HOBBSOCD

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 Marshall & Winston Incorporated P.O. Box 50880 Midland, TX 79710-0880		² OGRID Number 014187
³ Property Code 37951	⁵ Property Name Caprock 35 State #118	³ API Number 30-005-29114
⁹ Proposed Pool 1 Abo Wolfcamp Undermined Wildcat		⁶ Well No. #1 H
¹⁰ Proposed Pool 2		

Surface Location

UL or lot no m	Section 35	Township 14 S	Range 31 E	Lot Idn	Feet from the 660	North/Southline South	Feet from the 330	East/West line West	County Chaves
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Proposed Bottom Hole Location If Different From Surface

UL or lot no p	Section 35	Township 14 S	Range 31 E	Lot Idn	Feet from the 660	North/South line South	Feet from the 330	East/West line East	County Chaves
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Additional Well Information

¹¹ Work Type Code New Well	¹² Well Type Code Oil	¹³ Cable/Rotary Drilling / Rotary	¹⁴ Lease Type Code Fee- State	¹⁵ Ground Level Elevation 4402'
¹⁶ Multiple N/A	¹⁷ Proposed Depth (8700 to 8900)'	¹⁸ Formation Abo Wolfcamp	¹⁹ Contractor Patterson	²⁰ Spud Date

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
	20" conductor		0-70 ft		surface
17.5 "	13.375"	48	340'		surface
12.5"	9.635"	32	3950'		Surface
8.75"	7.00"	32	8700' TVD		3450'
6.125	4.50	11.6	13,125 '		8100' tie back

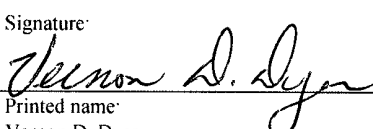
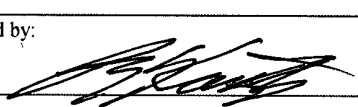
²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Drill new horizontal well. The vertical section will be drilled to approximately 9100' TVD, will run open hole logs from 9100' to intermediate casing, pick point to set cement plug estimated to be between 8300' and 7800'. Set cement plug then run the bottom hole assembly (BHA) and kick off at approximately 8,340'. Build curve at an estimated rate of 16 degrees per 100/ft., land curve at estimated 8700' TVD and 8974' TMD. Run 7" casing, then drill horizontal section from 8700' to 13125' TMD. Hang liner from 8100' to TD. The expected producing zone shall be the lower Abo upper Wolfcamp formations.

A 5,000 psi BOP equipment stack shall be installed on the surface casing and operated according to the NMOC rules and regulations. All equipment and connections above the brandenhead or casing head shall have a working pressure of 5,000 psi minimum. The BOPE shall include an automatic accumulator, Kelly cock, an Annular and double ram system

A closed loop system will be utilized, the C-144 Form is attached.

**Permit Expires 2 Years From Approval
Date Unless Drilling Underway**

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief		OIL CONSERVATION DIVISION	
Signature: 		Approved by: 	
Printed name: Vernon D. Dyer		Title: PETROLEUM ENGINEER	
Title Agent		Approval Date: DEC 30 2009	Expiration Date:
E-mail Address: vdyerol@cableone.com			
Date: 12/22/2009	Phone: (575) 420-0355	Conditions of Approval Attached ☐	

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

DISTRICT II
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1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

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State of New Mexico
Energy, Minerals and Natural Resources Department

CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-005-29114	Pool Code /	Pool Name Wildcat App- Wolfcamp
Property Code 37951	Property Name CAPROCK STATE 35	Well Number 1H
GRID No. 14187	Operator Name MARSHALL & WINSTON, INC.	Elevation 4402'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	35	14-S	31-E		660	SOUTH	330	WEST	CHAVES

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	35	14-S	31-E		660	SOUTH	330	EAST	CHAVES

Dedicated Acres	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

GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=747573.6 N X=663606.4 E LAT.=33.053997° N LONG.=103.799367° W BOTTOM HOLE LOCATION Y=747607.1 N X=668229.2 E GRID AZ.=89°35'01" HORIZ. DIST.=4624.1' 330' S.L. 660' FWL 662' FSL B.H. 330'	OPERATOR CERTIFICATION I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Vernon D. Dyer</i> 12-23-09 Signature Date VERNON D. DYER 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. RONALD J. EIDSON SEPTEMBER 22, 2009 Date Surveyed Signature & Seal of Professional Surveyor RONALD J. EIDSON 9-30-09
	Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239

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WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

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Property Code	Property Name CAPROCK STATE 35	Well Number 1H
OGRID No.	Operator Name MARSHALL & WINSTON, INC.	Elevation 4402'

Surface Location

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P	35	14-S	31-E		660	SOUTH	330	EAST	CHAVES

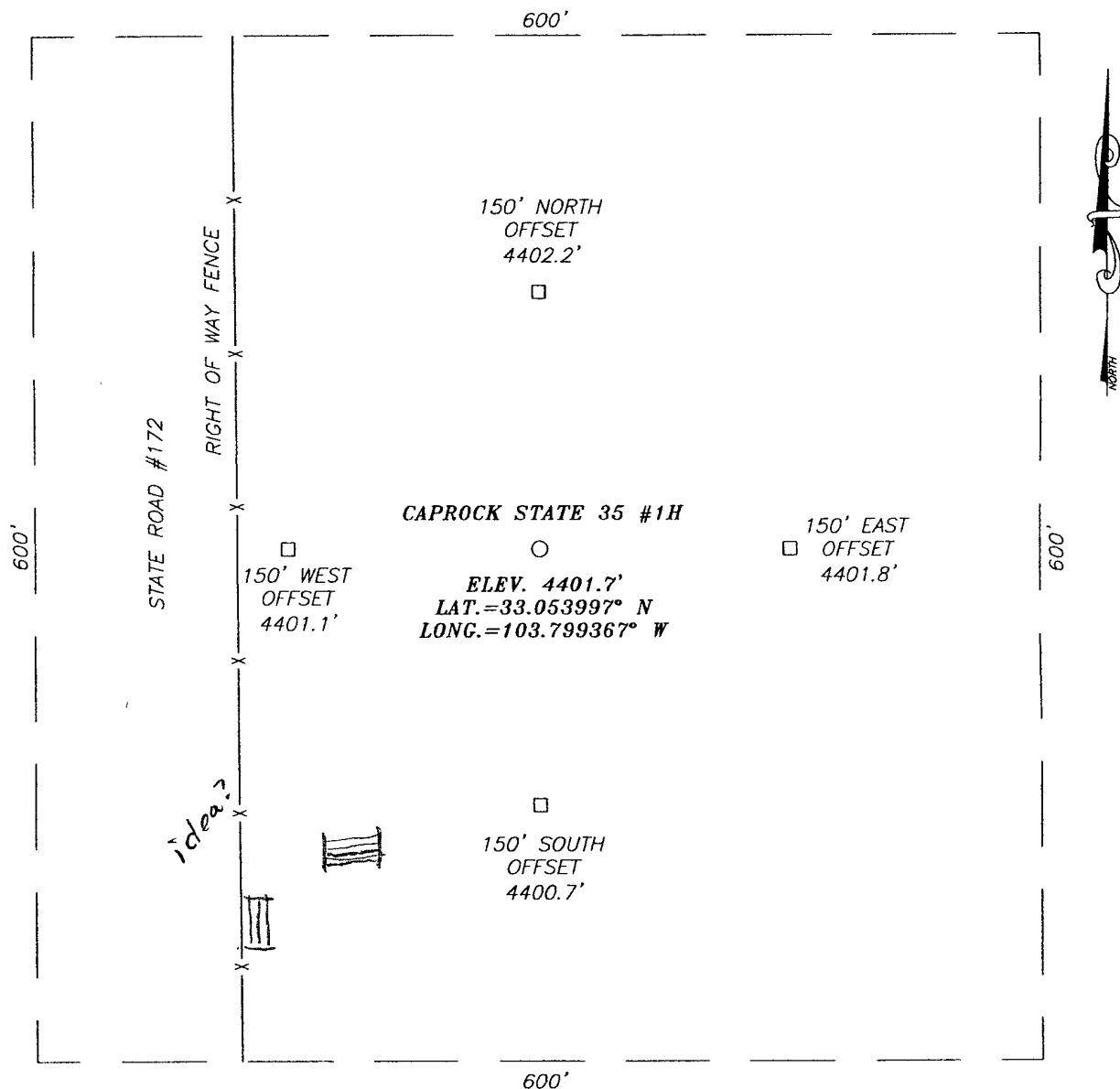
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=747573.6 N X=663606.4 E LAT.=33.053997° N LONG.=103.799367° W BOTTOM HOLE LOCATION Y=747607.1 N X=668229.2 E				OPERATOR CERTIFICATION I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Vernon D. Dyck</i> 12-23-09 Signature Date VERNON D. DYCK 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. SEPTEMBER 22 2009 NEW MEXICO Date Surveyed Signature of Professional Surveyor RONALD J. EIDSON 9-30-09 09-11-08-1				Certificate No. GARY EIDSON 12841 RONALD J. EIDSON 3239	

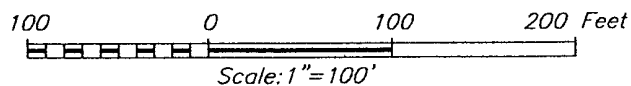
330' S.L. 660' GRID AZ.=89°35'01" HORIZ. DIST.=4624.1' B.H. 330' 660'

SECTION 35, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M.,
CHAVES COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. #172 AND
VENUS ROAD, GO NORTH ON ST. HWY. #172
APPROX. 660 FEET. THIS LOCATION IS APPROX.
200 FEET EAST OF RIGHT OF WAY FENCE.



MARSHALL & WINSTON, INC.

CAPROCK STATE 35 #1H WELL
LOCATED 660 FEET FROM THE SOUTH LINE
AND 330 FEET FROM THE WEST LINE OF SECTION 35,
TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M.,
CHAYES COUNTY, NEW MEXICO.

Survey Date: 9/22/09 Sheet 1 of 1 Sheets

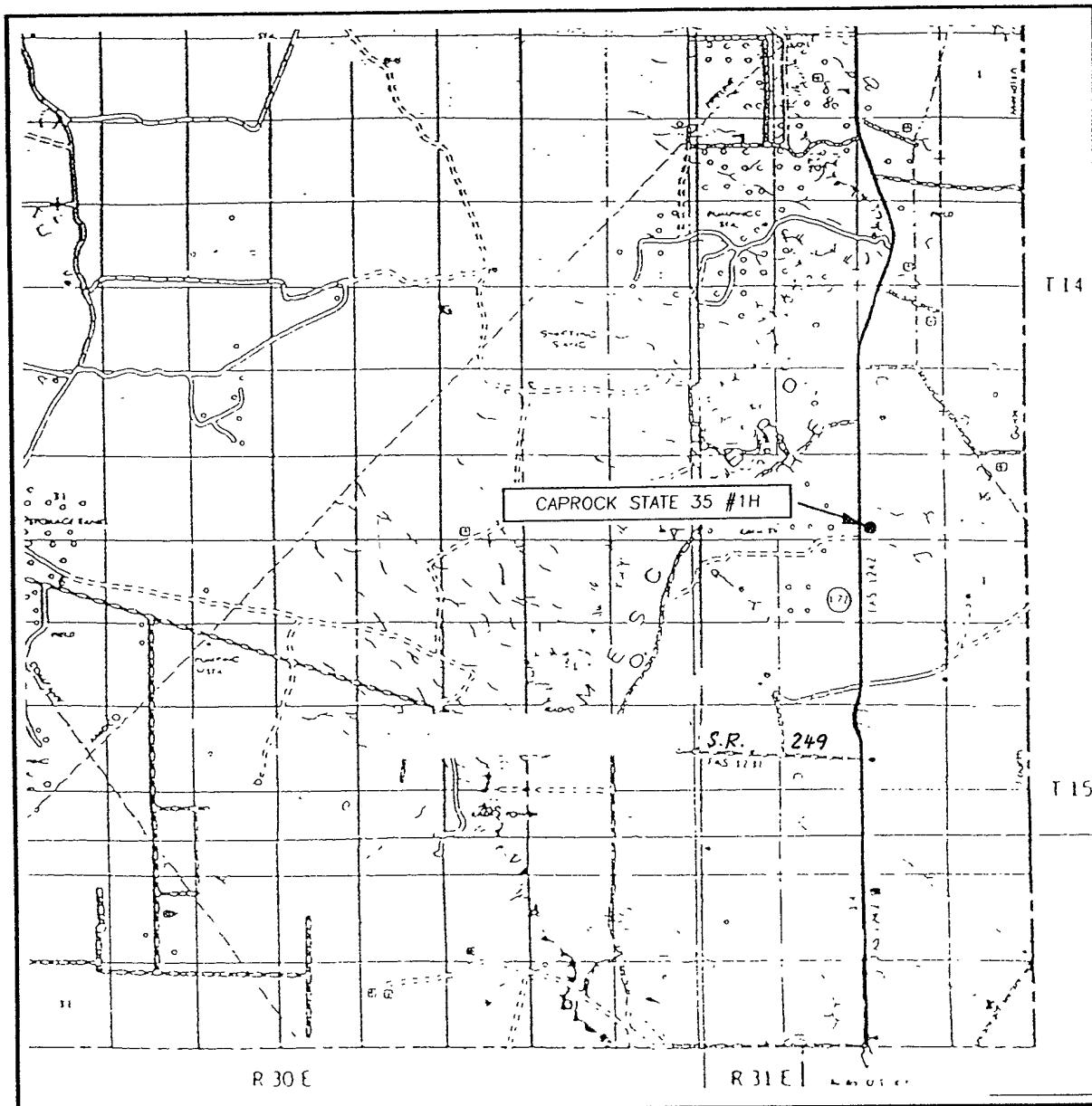
W.O. Number: 09.11.0871	Dr By: LA	Rev 1:N/A
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Date: 9/30/09	09110871	Scale: 1"=100'
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PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 35 TWP. 14-S RGE. 31-E

SURVEY N.M.P.M.

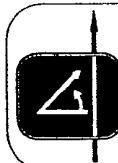
COUNTY CHAVES STATE NEW MEXICO

DESCRIPTION 660' FSL & 330' FWL

ELEVATION 4402'

OPERATOR MARSHALL & WINSTON, INC.

LEASE CAPROCK STATE 35

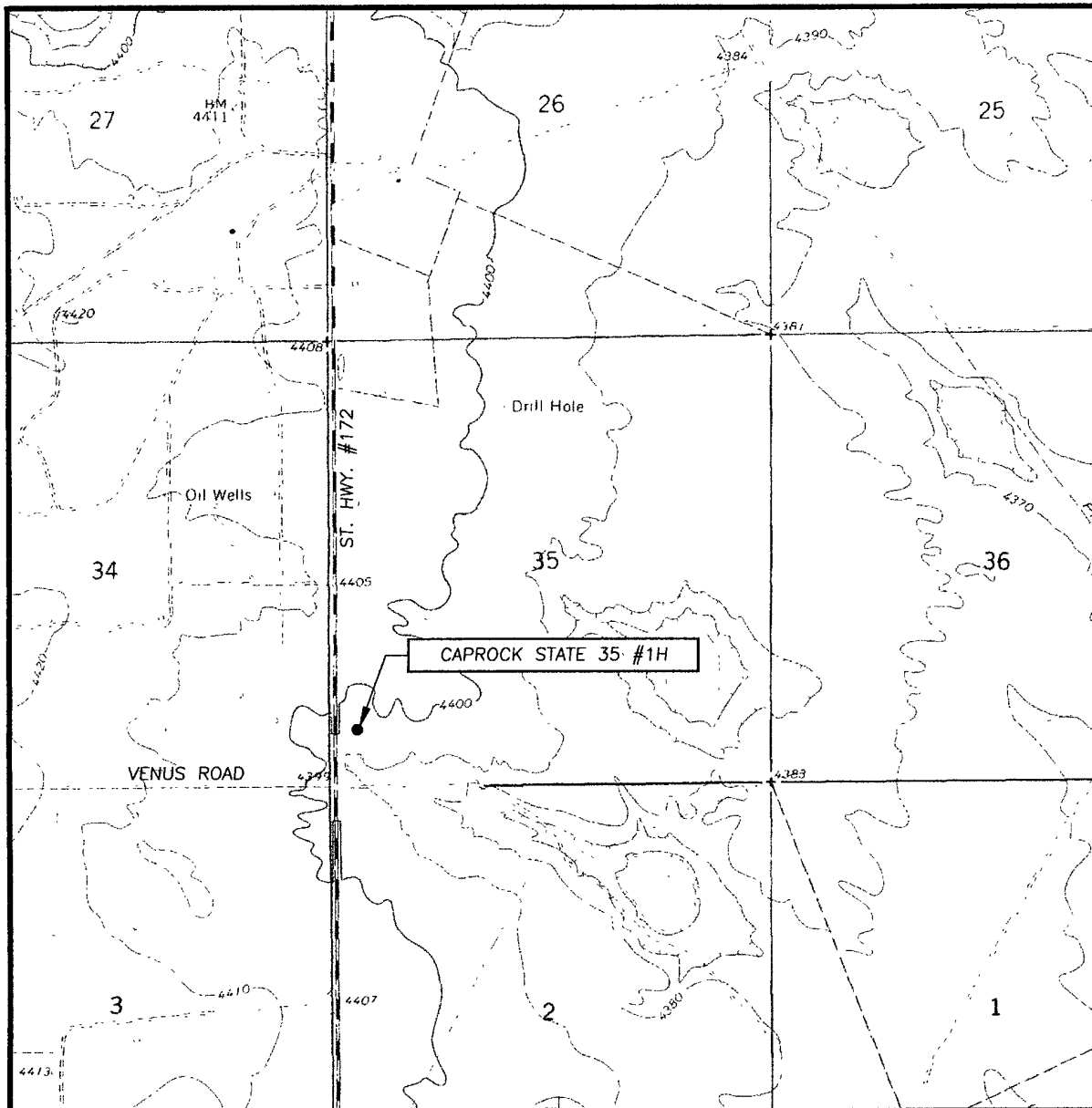


PROVIDING SURVEYING SERVICES
SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
CEDAR POINT SE, N.M. - 10'

SEC. 35 TWP. 14-S RGE. 31-E

SURVEY _____ N.M.P.M.

COUNTY CHAVES STATE NEW MEXICO

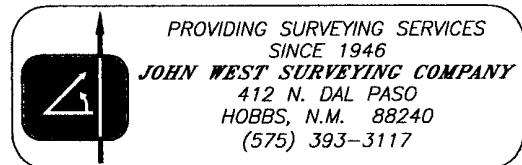
DESCRIPTION 660' FSL & 330' FWL

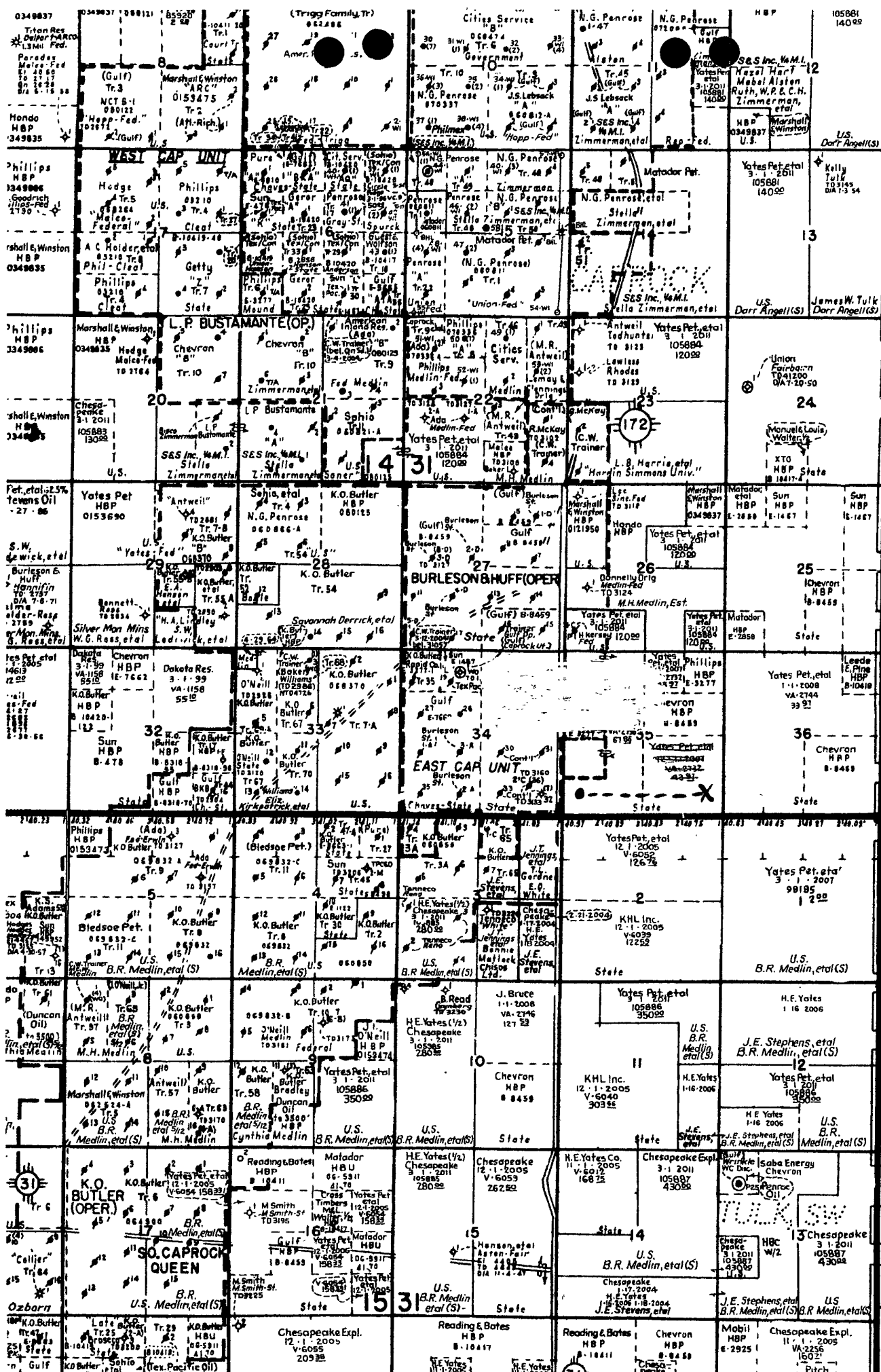
ELEVATION 4402'

OPERATOR MARSHALL & WINSTON, INC.

LEASE CAPROCK STATE 35

U.S.G.S. TOPOGRAPHIC MAP
CEDAR POINT SE, N.M.



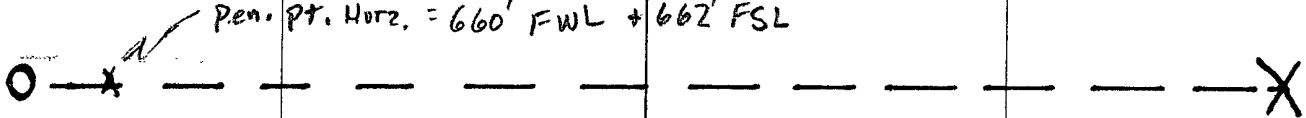


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Section 35 Township 14-S Range 31-E County Chaves State N.M.

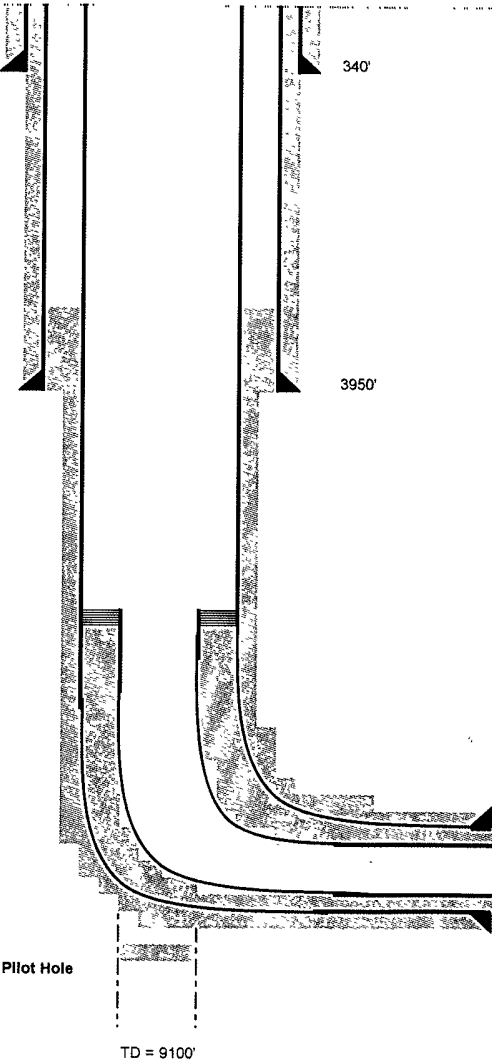
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ConocoPhillips EO-3277-0000 40.00 AC	OPEN	Chevron BO-8459-0000 80.00 AC	
	MARSHALL & Winston, Inc MO-8493-0000 320.00 AC		
CAPROCK 35 State # 1 H Pen. Pt. Horiz. = 660' FWL + 662' FSL 			

STRIKE HORIZONTAL LOCATION

$$330' \text{ FWL} + 359.99' = 659.99' \approx 660' \text{ FWL} \quad \sqrt{x^2 + y^2} = 935' \text{ FCC}$$

$$660' \text{ FSL} + 2' \text{ N} = 662' \text{ FSL} \quad \text{OR}$$

240' FV Hole Location

AFE No. API # Permit No. Project No.	 Caprock State 35-1H Chavez County, NM Proposed Wellbore Sketch	AFE Information Dry Hole: Days: Proposed TD: 13,169' TMD 8700' TVD v
 Drill 17-1/2" Hole with 8 4-8 6 Spud Mud 13-3/8" 48# H-60 STC Surface at 340" Drill out with 12-1/4" Bit with 10# Salt Saturated Water Cement to surface 9-5/8" 36# J-55 STC Casing at 3950'. Drill with 8-3/4" to TD of Pilot Hole with 8 4# - 9.5# Cut Brine Vis 28-29 and Water Loss no greater than 12 Liner Hanger at 8190' Kick off with 8-3/4" bit at about 8340' Land Curve at 8700' TVD 8905 TMD Run 7" 26# P-110 LTC casing and cement to intermediate casing Drill out with 6-1/8" bit to TD 4-1/2" P-110 11.6# LTC Casing TMD 13,169'		
<u>Well Information</u> Surface Location Chavez County, T14S R31E Section 35		

30-005-29114



Marshall & Winston, INC

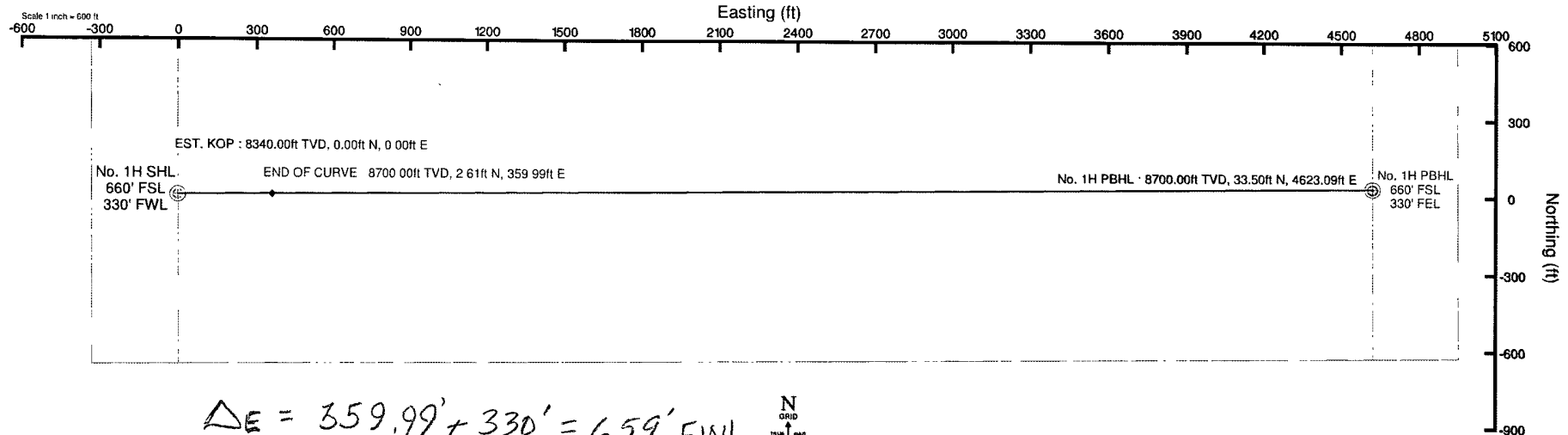
Location Chaves County, NM
Field (Caprock) Sec 35, T14S, R31E
Facility Caprock State 35 No. 1H

Slot: No. 1H SHL
Well: No. 1H
Wellbore: No. 1H PWB



Well Profile Data

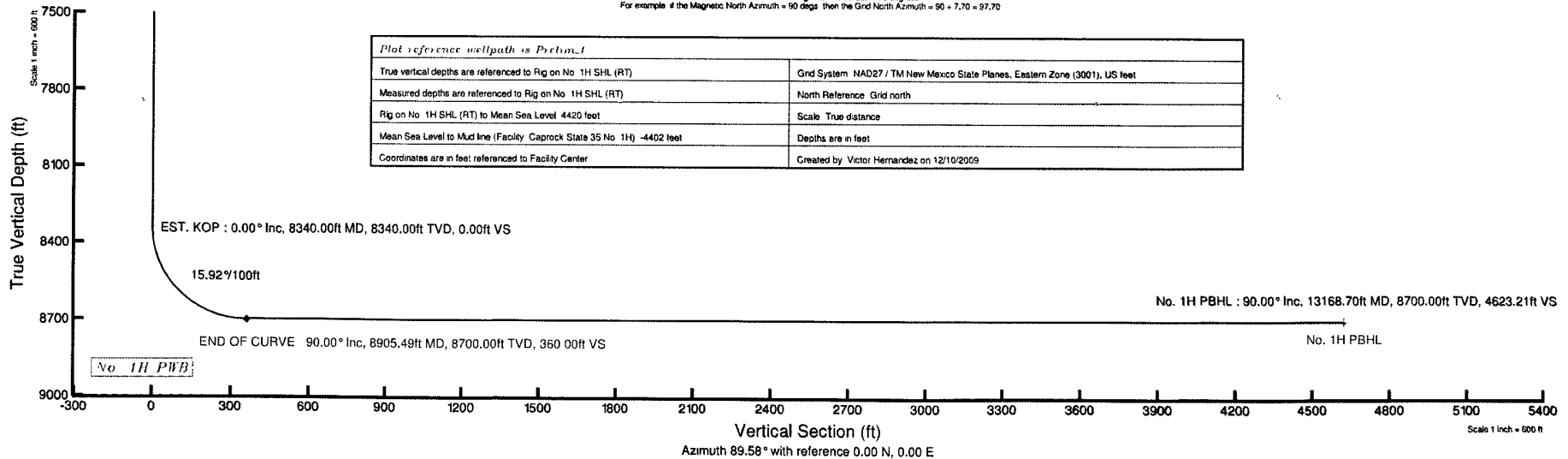
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	89.585	0.00	0.00	0.00	0.00	0.00
EST KOP	8340.00	0.000	89.585	8340.00	0.00	0.00	0.00	0.00
END OF CURVE	8905.49	90.000	89.585	8700.00	2.61	359.99	15.92	360.00
No. 1H PBHL	13168.70	90.000	89.585	8700.00	33.50	4623.09	0.00	4623.21



$$\Delta E = 359.99' + 330' = 659' \text{ FWL}$$

$$\Delta N = 2' + 660' (\text{FSL}) = 662' \text{ FSL}$$

BGGM (1945.0 to 2011.0) Dip: 69.97° Field: 48296.7 nT
Magnetic North is 7.99 degrees East of True North (at 12/10/2009)
Grid North is 0.29 degrees East of True North
To correct azimuth from True to Grid subtract 0.29 degrees
To correct azimuth from Magnetic to Grid add 7.70 degrees
For example if the Magnetic North Azimuth = 90 degs then the Grid North Azimuth = 90 + 7.70 = 97.70



Plot reference wellpath is Prelim.1	
True vertical depths are referenced to Rig on No. 1H SHL (RT)	Grid System NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 1H SHL (RT)	North Reference Grid north
Rig on No. 1H SHL (RT) to Mean Sea Level 4420 feet	Scale True distance
Mean Sea Level to Mud line (Facility Caprock State 35 No. 1H) -4402 feet	Depths are in feet
Coordinates are in feet referenced to Facility Center	Created by Victor Hernandez on 12/10/2009



Planned Wellpath Report

Prelim_1

Page 1 of 4



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Marshall & Winston, INC	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Caprock) Sec 35, T14S, R31E	Wellbore	No. 1H PWB
Facility	Caprock State 35 No. 1H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.99994	Report Generated	12/10/2009 at 10:16:52 AM
Convergence at slot	0.29° East	Database/Source file	WA_Midland/No. 1H_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	663606.40	747573.60	33°03'14.389"N	103°47'57.720"W
Facility Reference Pt			663606.40	747573.60	33°03'14.389"N	103°47'57.720"W
Field Reference Pt			663606.40	747573.60	33°03'14.389"N	103°47'57.720"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 1H SHL (RT) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 1H SHL (RT) to Mean Sea Level	4420.00ft
Vertical Reference Pt	Rig on No. 1H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 1H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	89.58°

Planned Wellpath Report

Prelim_1
Page 2 of 4

INTEQ

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Field	(Caprock) Sec 35, T14S, R31E	Wellbore	No. 1H PWB
Facility	Caprock State 35 No. 1H		

WELLPATH DATA (52 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]	Comments
0.00	0.000	89.585	0.00	0.00	0.00	0.00	663606.40	747573.60	0.00	Tie On
8340.00	0.000	89.585	8340.00	0.00	0.00	0.00	663606.40	747573.60	0.00	EST. KOP
8440.00†	15.915	89.585	8438.72	13.80	0.10	13.80	663620.20	747573.70	15.92	
8540.00†	31.831	89.585	8529.87	54.14	0.39	54.14	663660.54	747573.99	15.92	
8640.00†	47.746	89.585	8606.46	117.93	0.85	117.93	663724.32	747574.45	15.92	
8740.00†	63.662	89.585	8662.63	200.28	1.45	200.27	663806.66	747575.05	15.92	
8840.00†	79.577	89.585	8694.06	294.87	2.14	294.87	663901.25	747575.74	15.92	
8905.49	90.000	89.585	8700.00	360.00	2.61	359.99	663966.37	747576.21	15.92	END OF CURVE
8940.00†	90.000	89.585	8700.00	394.51	2.86	394.50	664000.88	747576.46	0.00	
9040.00†	90.000	89.585	8700.00	494.51	3.58	494.50	664100.87	747577.18	0.00	
9140.00†	90.000	89.585	8700.00	594.51	4.31	594.50	664200.86	747577.91	0.00	
9240.00†	90.000	89.585	8700.00	694.51	5.03	694.50	664300.85	747578.63	0.00	
9340.00†	90.000	89.585	8700.00	794.51	5.76	794.49	664400.84	747579.36	0.00	
9440.00†	90.000	89.585	8700.00	894.51	6.48	894.49	664500.83	747580.08	0.00	
9540.00†	90.000	89.585	8700.00	994.51	7.21	994.49	664600.83	747580.81	0.00	
9640.00†	90.000	89.585	8700.00	1094.51	7.93	1094.48	664700.82	747581.53	0.00	
9740.00†	90.000	89.585	8700.00	1194.51	8.66	1194.48	664800.81	747582.26	0.00	
9840.00†	90.000	89.585	8700.00	1294.51	9.38	1294.48	664900.80	747582.98	0.00	
9940.00†	90.000	89.585	8700.00	1394.51	10.11	1394.48	665000.79	747583.70	0.00	
10040.00†	90.000	89.585	8700.00	1494.51	10.83	1494.47	665100.78	747584.43	0.00	
10140.00†	90.000	89.585	8700.00	1594.51	11.55	1594.47	665200.77	747585.15	0.00	
10240.00†	90.000	89.585	8700.00	1694.51	12.28	1694.47	665300.76	747585.88	0.00	
10340.00†	90.000	89.585	8700.00	1794.51	13.00	1794.47	665400.75	747586.60	0.00	
10440.00†	90.000	89.585	8700.00	1894.51	13.73	1894.46	665500.75	747587.33	0.00	
10540.00†	90.000	89.585	8700.00	1994.51	14.45	1994.46	665600.74	747588.05	0.00	
10640.00†	90.000	89.585	8700.00	2094.51	15.18	2094.46	665700.73	747588.78	0.00	
10740.00†	90.000	89.585	8700.00	2194.51	15.90	2194.46	665800.72	747589.50	0.00	
10840.00†	90.000	89.585	8700.00	2294.51	16.63	2294.45	665900.71	747590.23	0.00	
10940.00†	90.000	89.585	8700.00	2394.51	17.35	2394.45	666000.70	747590.95	0.00	
11040.00†	90.000	89.585	8700.00	2494.51	18.08	2494.45	666100.69	747591.68	0.00	

Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Marshall & Winston, INC	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Caprock) Sec 35, T14S, R31E	Wellbore	No. 1H PWB
Facility	Caprock State 35 No. 1H		

WELLPATH DATA (52 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]	Comments
11140.00†	90.000	89.585	8700.00	2594.51	18.80	2594.45	666200.68	747592.40	0.00	
11240.00†	90.000	89.585	8700.00	2694.51	19.53	2694.44	666300.67	747593.12	0.00	
11340.00†	90.000	89.585	8700.00	2794.51	20.25	2794.44	666400.67	747593.85	0.00	
11440.00†	90.000	89.585	8700.00	2894.51	20.98	2894.44	666500.66	747594.57	0.00	
11540.00†	90.000	89.585	8700.00	2994.51	21.70	2994.43	666600.65	747595.30	0.00	
11640.00†	90.000	89.585	8700.00	3094.51	22.42	3094.43	666700.64	747596.02	0.00	
11740.00†	90.000	89.585	8700.00	3194.51	23.15	3194.43	666800.63	747596.75	0.00	
11840.00†	90.000	89.585	8700.00	3294.51	23.87	3294.43	666900.62	747597.47	0.00	
11940.00†	90.000	89.585	8700.00	3394.51	24.60	3394.42	667000.61	747598.20	0.00	
12040.00†	90.000	89.585	8700.00	3494.51	25.32	3494.42	667100.60	747598.92	0.00	
12140.00†	90.000	89.585	8700.00	3594.51	26.05	3594.42	667200.60	747599.65	0.00	
12240.00†	90.000	89.585	8700.00	3694.51	26.77	3694.42	667300.59	747600.37	0.00	
12340.00†	90.000	89.585	8700.00	3794.51	27.50	3794.41	667400.58	747601.10	0.00	
12440.00†	90.000	89.585	8700.00	3894.51	28.22	3894.41	667500.57	747601.82	0.00	
12540.00†	90.000	89.585	8700.00	3994.51	28.95	3994.41	667600.56	747602.54	0.00	
12640.00†	90.000	89.585	8700.00	4094.51	29.67	4094.41	667700.55	747603.27	0.00	
12740.00†	90.000	89.585	8700.00	4194.51	30.40	4194.40	667800.54	747603.99	0.00	
12840.00†	90.000	89.585	8700.00	4294.51	31.12	4294.40	667900.53	747604.72	0.00	
12940.00†	90.000	89.585	8700.00	4394.51	31.84	4394.40	668000.52	747605.44	0.00	
13040.00†	90.000	89.585	8700.00	4494.51	32.57	4494.40	668100.52	747606.17	0.00	
13140.00†	90.000	89.585	8700.00	4594.51	33.29	4594.39	668200.51	747606.89	0.00	
13168.70	90.000	89.585	8700.00 ¹	4623.21	33.50	4623.09	668229.20	747607.10	0.00	No. 1H PBHL

HOLE & CASING SECTIONS Ref Wellbore: No. 1H PWB Ref Wellpath: Prelim_1									
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]
8.75in Open Hole	0.00	8905.00	8905.00	0.00	8700.00	0.00	0.00	2.61	359.50
6.125in Open Hole	8905.00	13127.79	4222.79	8700.00	8700.00	2.61	359.50	33.21	4582.18



Planned Wellpath Report

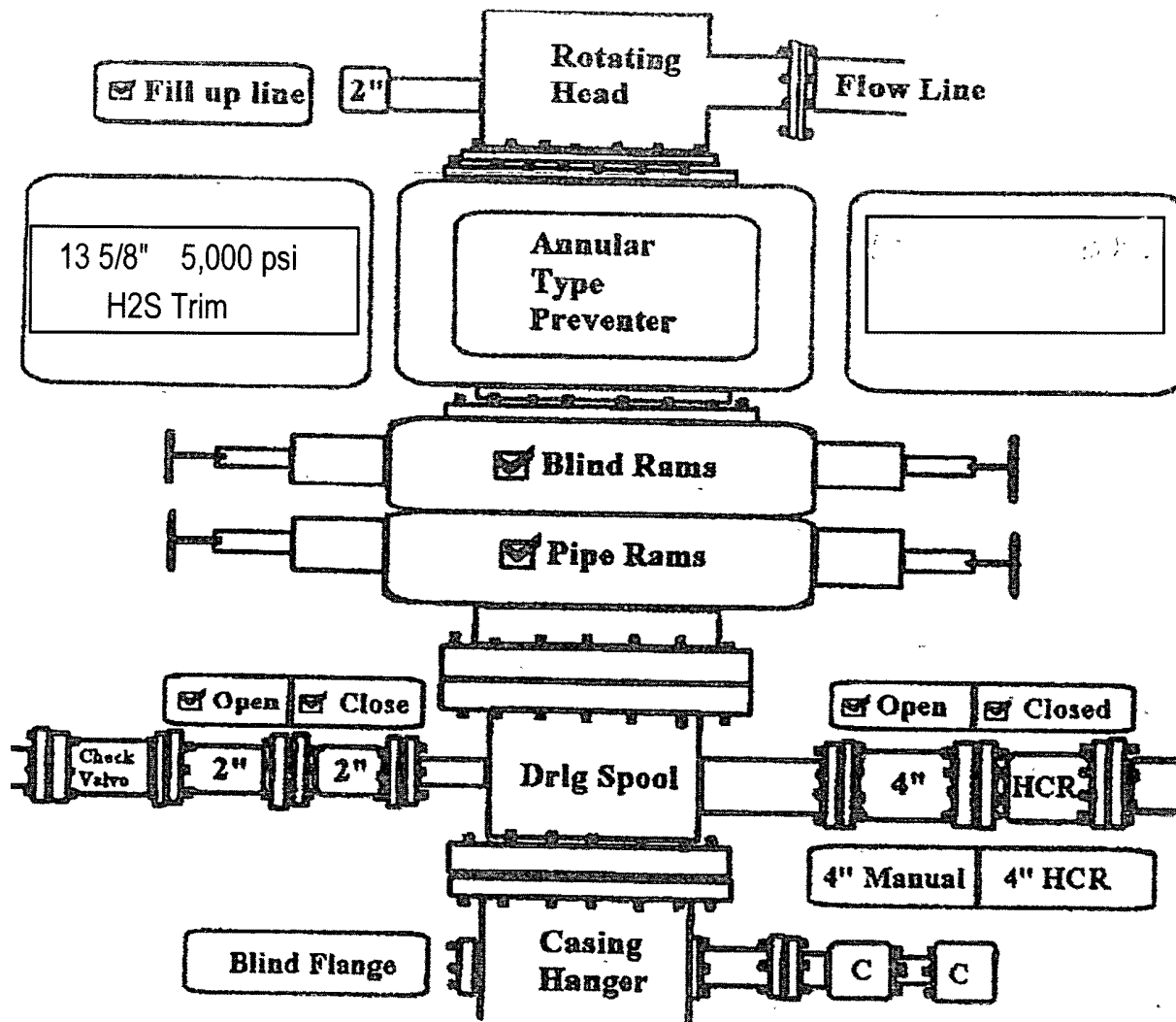
Prelim_1
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Marshall & Winston, INC	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Caprock) Sec 35, T14S, R31E	Wellbore	No. 1H PWB
Facility	Caprock State 35 No. 1H		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 1H PBHL	13168.70	8700.00	33.50	4623.09	668229.20	747607.10	33°03'14.485"N	103°47'03.405"W	point

SURVEY PROGRAM Ref Wellbore: No. 1H PWB Ref Wellpath: Prelim_1				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	13168.70	NaviTrak (Standard)		No. 1H PWB



Contractor
and
Rig #