

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980
DISTRICT II
P.O. Box Drawer DD, Artesia, NM 88211-0719
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address TEXACO EXPLORATION & PRODUCTION INC. 205 E. Bender, HOBBS, NM 88240		² OGRID Number 022351
⁴ Property Code 11125	⁵ Property Name VACUUM GLORIETA WEST UNIT	³ API Number 30-025-33429
		⁶ Well No. 89

⁷ Surface Location									
Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
I	36	17-S	34-E		2000	SOUTH	1070	EAST	LEA

⁸ Proposed 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
E	31	17 ¹⁸⁵	35E		2078	North	132	West	Lea
⁹ Proposed Pool 1 Vacuum Glorieta (unitized interval)					¹⁰ Proposed Pool 2				

¹¹ Work Type Code P	¹² WellType Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3988' GR
¹⁶ Multiple No	¹⁷ Proposed Depth 5960 TVD	¹⁸ Formation Upper Paddock	¹⁹ Contractor Unknown	²⁰ Spud Date 11/7/97

²¹ Proposed Casing and Cement Program					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
11"	8 5/8"	24#	1540'	CL-C 550 SX, CIR 113	SURFACE
7 7/8"	5 1/2"	15.5 & 17#	6300'	C&H 1325 SX, CIR 139	SURFACE

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.

Objective: Texaco intends to directionally drill a 1700' horizontal lateral section from the subject existing wellbore.

1. MIRU pulling unit. Set CIBP @ 5880'.
2. Run in hole with whipstock. Run Gyro survey to orient whipstock - whipstock face should have azimuth of 45°. Set whipstock on CIBP @ 5880'.
3. Run in hole with starting mill to establish cut in casing (KOP @ 5860'). TOH with starting mill. TIH with watermelon mill, drillpipe, and drill collars. Mill ~10' window.
4. Drill 100' radius build section with EOB @ 5960'.
5. Directionally drill horizontal section 1700' from surface location. TOH with drill equipment.
6. Acid stimulate horizontal section of well with a 34,000 gallon 15% HCL DSP coiled tubing treatment.
7. Run in hole with submersible pumping equipment. Return well to production. Place on test.

Permit Expires 1 Year From Approval
Data Unless Drilling Underway
Directionally

²³ I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature <i>Darrell J. Carriger</i>		ORIGINAL SIGNED BY CHRIS WILLIAMS DISTRICT I SUPERVISOR	
Printed Name Darrell J. Carriger		Approved By:	
Title Prod. Engineer		Title:	
Date 10/29/97		Approval Date NOV 4 1997	Expiration Date:
Telephone 397-0426		Conditions of Approval: Attached ☐	



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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-33429	² Pool Code 62160	³ Pool Name VACUUM GLORIETA
⁴ Property Code 11125	⁵ Property Name VACUUM GLORIETA WEST UNIT	⁶ Well No. 89
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁹ Elevation 3988' GR

¹⁰ Surface Location

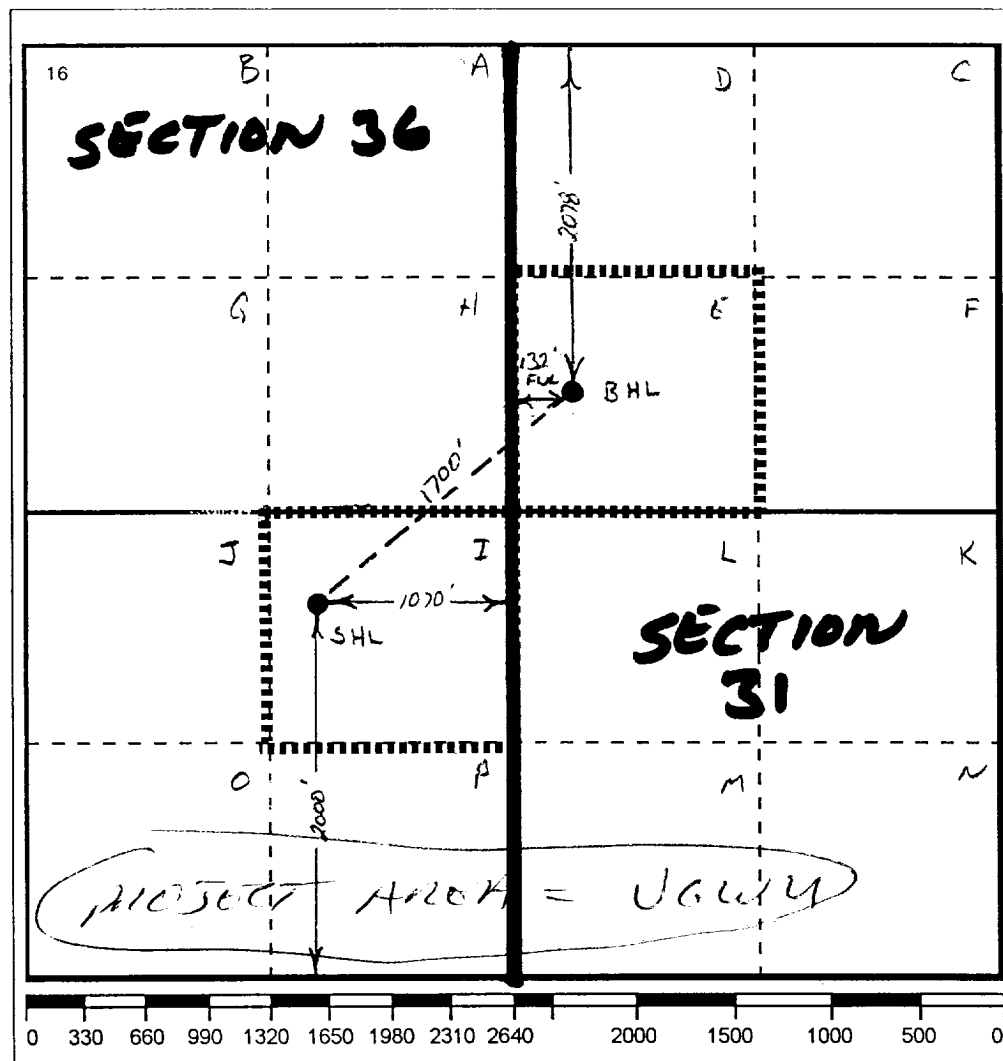
Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
I	36	17-S	34-E		2000	SOUTH	1070	EAST	LEA

¹¹ 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
E	31	17S	35E		2078	NORTH	132	WEST	LEA

¹² Dedicated Acres 80	¹³ Joint or Infill No	¹⁴ Consolidation Code	¹⁵ 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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature

Printed Name

Darrell J. Carriger

Position

Prod. Engineer

Date

10/25/97

18 SURVEYOR CERTIFICATION

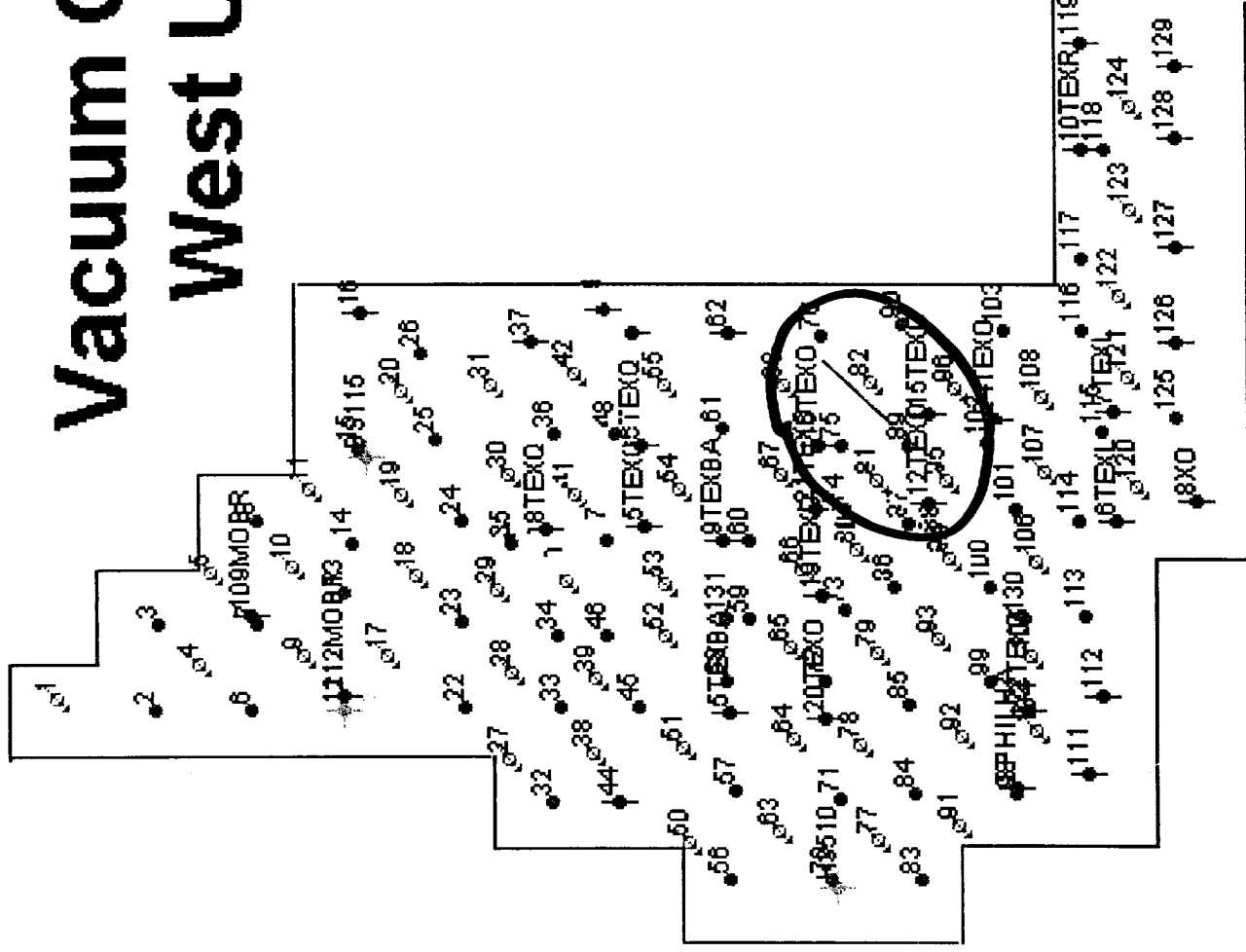
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Signature & Seal of
Professional Surveyor

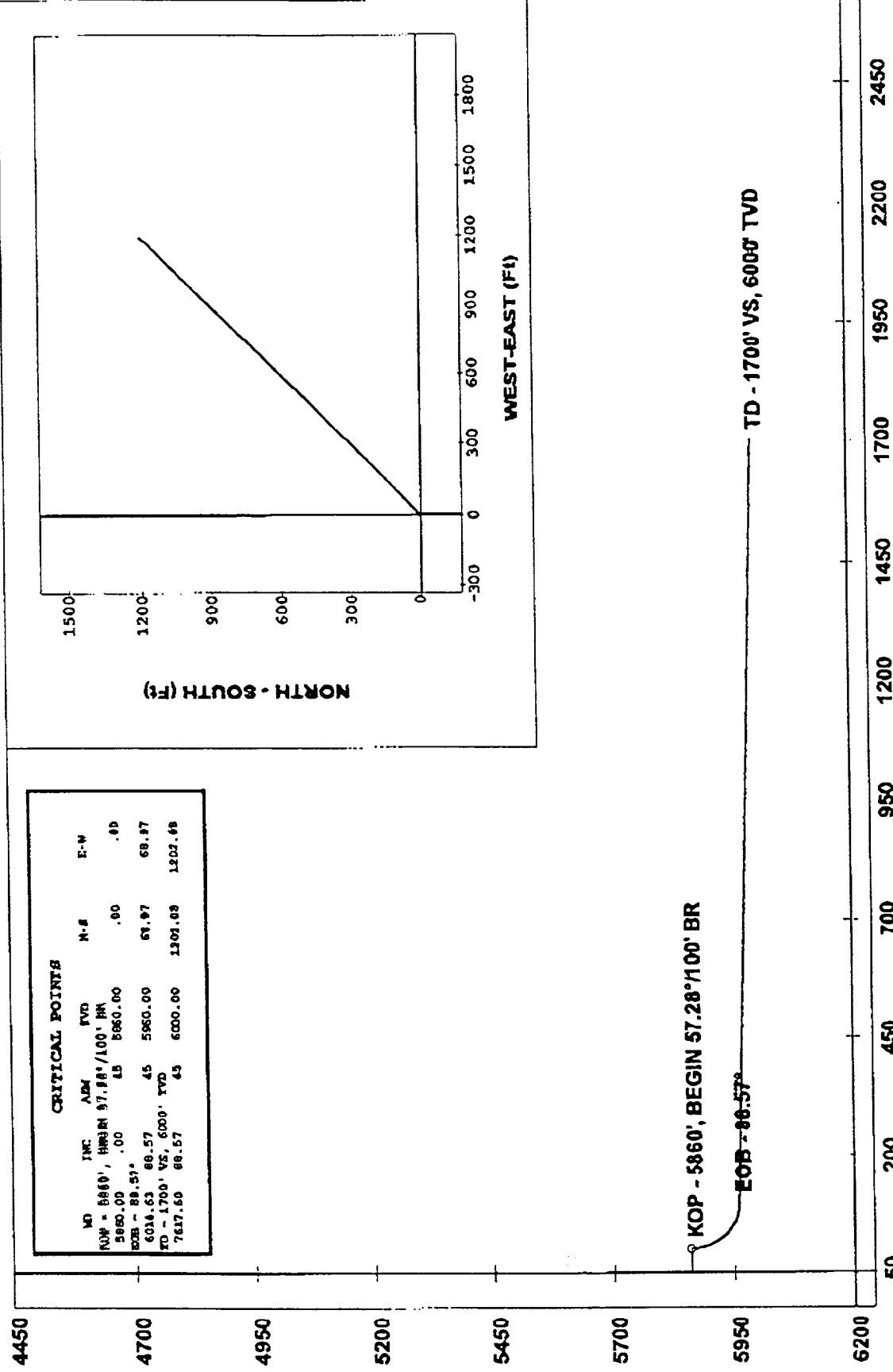
Certificate No.

Vacuum Glorieta West Unit



Date/Time: 28-Oct-97 / 10:18

Company: TEXACO
Lease/Well: VGWU NO.89
Location: LEA COUNTY, NM
Rig Name:
Gnd:
File name: C:\WINSERVE\VGWU#89.SVY



° - VGWU#89(REV.0)

VERTICAL SECTION (Ft) @ 45.00°



Job Number:

Company: TEXACO

Lease/Well: VGWU NO.89

Location: LEA COUNTY, NM

Rig Name:

RKB:

G.L. or M.S.L.:

State/Country: NEW MEXICO/USA

Declination:

Grid:

File name: C:\WINSERVE\VGWU#89.SVY

Data Time: 28-Oct-97 / 10:18

Curve Name: VGWU#89(REV.0)

PHOENIX DRILLING SERVICES, INC.

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 45.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
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KOP - 5860', BEGIN 57.28°/100' BR

5860.00	.00	45.00	5860.00	-5860.00	.00	.00	.00	.00	.00	.00
5870.00	5.73	45.00	5869.98	-5869.98	.35	.35	.50	.50	45.00	57.28
5880.00	11.46	45.00	5879.87	-5879.87	1.41	1.41	1.99	1.99	45.00	57.28
5890.00	17.18	45.00	5889.55	-5889.55	3.16	3.16	4.46	4.46	45.00	57.28
5900.00	22.91	45.00	5898.94	-5898.94	5.58	5.58	7.89	7.89	45.00	57.28
5910.00	28.64	45.00	5907.94	-5907.94	8.65	8.65	12.24	12.24	45.00	57.28
5920.00	34.37	45.00	5916.47	-5916.47	12.35	12.35	17.46	17.46	45.00	57.28
5930.00	40.09	45.00	5924.43	-5924.43	16.62	16.62	23.51	23.51	45.00	57.28
5940.00	45.82	45.00	5931.74	-5931.74	21.44	21.44	30.32	30.32	45.00	57.28
5950.00	51.55	45.00	5938.34	-5938.34	26.75	26.75	37.83	37.83	45.00	57.28
5960.00	57.28	45.00	5944.16	-5944.16	32.50	32.50	45.96	45.96	45.00	57.28

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
								Distance FT	Direction Deg	
5970.00	63.01	45.00	5949.13	-5949.13	38.63	38.63	54.63	54.63	45.00	57.28
5980.00	68.73	45.00	5953.22	-5953.22	45.08	45.08	63.75	63.75	45.00	57.28
5990.00	74.46	45.00	5956.38	-5956.38	51.78	51.78	73.23	73.23	45.00	57.28
6000.00	80.19	45.00	5958.57	-5958.57	58.68	58.68	82.99	82.99	45.00	57.28
6010.00	85.92	45.00	5959.78	-5959.78	65.70	65.70	92.91	92.91	45.00	57.28
EOB - 88.57°										
6014.63	88.57	45.00	5960.00	-5960.00	68.97	68.97	97.53	97.53	45.00	57.28
6044.63	88.57	45.00	5960.75	-5960.75	90.17	90.17	127.52	127.52	45.00	.00
6074.63	88.57	45.00	5961.50	-5961.50	111.38	111.38	157.51	157.51	45.00	.00
6104.63	88.57	45.00	5962.25	-5962.25	132.59	132.59	187.50	187.50	45.00	.00
6134.63	88.57	45.00	5963.00	-5963.00	153.79	153.79	217.49	217.49	45.00	.00
6164.63	88.57	45.00	5963.75	-5963.75	175.00	175.00	247.49	247.49	45.00	.00
6194.63	88.57	45.00	5964.50	-5964.50	196.20	196.20	277.48	277.48	45.00	.00
6224.63	88.57	45.00	5965.25	-5965.25	217.41	217.41	307.47	307.47	45.00	.00
6254.63	88.57	45.00	5966.00	-5966.00	238.62	238.62	337.46	337.46	45.00	.00
6284.63	88.57	45.00	5966.75	-5966.75	259.82	259.82	367.45	367.45	45.00	.00
6314.63	88.57	45.00	5967.50	-5967.50	281.03	281.03	397.44	397.44	45.00	.00
6344.63	88.57	45.00	5968.25	-5968.25	302.24	302.24	427.43	427.43	45.00	.00
6374.63	88.57	45.00	5968.99	-5968.99	323.44	323.44	457.42	457.42	45.00	.00
6404.63	88.57	45.00	5969.74	-5969.74	344.65	344.65	487.41	487.41	45.00	.00
6434.63	88.57	45.00	5970.49	-5970.49	365.86	365.86	517.40	517.40	45.00	.00
6464.63	88.57	45.00	5971.24	-5971.24	387.06	387.06	547.39	547.39	45.00	.00
6494.63	88.57	45.00	5971.99	-5971.99	408.27	408.27	577.38	577.38	45.00	.00
6524.63	88.57	45.00	5972.74	-5972.74	429.48	429.48	607.37	607.37	45.00	.00
6554.63	88.57	45.00	5973.49	-5973.49	450.68	450.68	637.36	637.36	45.00	.00
6584.63	88.57	45.00	5974.24	-5974.24	471.89	471.89	667.35	667.35	45.00	.00
6614.63	88.57	45.00	5974.99	-5974.99	493.10	493.10	697.34	697.34	45.00	.00
6644.63	88.57	45.00	5975.74	-5975.74	514.30	514.30	727.34	727.34	45.00	.00
6674.63	88.57	45.00	5976.48	-5976.48	535.51	535.51	757.33	757.33	45.00	.00
6704.63	88.57	45.00	5977.23	-5977.23	556.72	556.72	787.32	787.32	45.00	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
TD - 1700' VS, 6000' TVD										
7617.60	88.57	45.00	6000.00	-6000.00	1202.08	1202.08	1700.00	1700.00	45.00	.00