

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 87424
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Resources

Form C-101
March 4, 2004

NOTIFY OCD OF SPUD & TIME TO
WITNESS CEMENTING OF
SURFACE & INTERMEDIATE
CASING

Division
Dr.

RECEIVED

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

5 OCT - 1 2004

☐ AMENDED REPORT

OCD-ARTESIA

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

¹ Operator Name and Address PERENCO, LLC. 6 DESTA DRIVE SUITE 6800 MIDLAND, TEXAS 79705		² OGRID Number 218885
		³ API Number 30 - 015- 33827
⁴ Property Code	⁵ Property Name "1625" FEDERAL COM.	⁶ Well No. 301

⁷ Surface Location

UL or lot no. B	Section 30	Township 16S	Range 25E	Lot Idn	Feet from the 510'	North/South line NORTH	Feet from the 1940'	East/West line EAST	County EDDY
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⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no. O	Section 30	Township 16S	Range 25E	Lot Idn	Feet from the 660'	North/South line SOUTH	Feet from the 1940'	East/West line EAST	County EDDY
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⁹ Proposed Pool 1 WILDCAT COTTONWOOD CREEK EAST-ABO	¹⁰ Proposed Pool 2
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Drilling Pit Location and Other Information

UL or lot no. B	Section 30	Township 16S	Range 25E	Lot Idn	Feet from the 510'	North/South line NORTH	Feet from the 1940'	East/West line EAST	County EDDY
Depth to ground water				Distance from nearest fresh water well .75 Mi. Northwest		Distance from nearest surface water			
¹¹ Work Type Code N		¹² Well Type Code G		¹³ Cable/Rotary ROTARY		¹⁴ Lease Type Code S		¹⁵ Ground Level Elevation	
¹⁶ Multiple NO		¹⁷ Proposed Depth 5500'		¹⁸ Formation ABO		¹⁹ Contractor PATTERSON		²⁰ Spud Date WHEN APPROVED	

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
25"	20"	Conductor	40'	Redi-mix	Surface
17 1/2"	13 3/8"	48	350'	450 Sx.	Surface
12 1/4"	9 5/8"	40	1200'	475 Sx.	Surface
8 3/4"	7"	26	5500'	670 Sx.	700'
* 6 1/8"	4 1/2"	11.35	4100' lateral	No Cement	

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.

SEE ATTACHED SHEET

Air or Fresh Water Mud to @ 1200'

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOC guidelines ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

Signature: Joe T. Janica

Printed name: Joe T. Janica

Title: Agent

E-mail Address:

Date: 09/30/04

Phone: 505-391-8503

OIL CONSERVATION DIVISION

Approved by:

TIM W. GUM

Title:

DISTRICT II SUPERVISOR

Approval Date:

JAN 05 2005

Expiration Date:

JAN 05 2006

Conditions of Approval:

Attached ☐

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.

PERENCO, LLC.
"1625" FEDERAL COM. # 301
UNIT "B" SECTION 30
T16S-R25E EDDY CO. NM

1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 350'. Run and set 350' of 13 3/8" 48# H-40 ST&C casing. Cement with 450 Sx. of Class "C" cement + 2% CaCl, circulate cement to surface.
3. Drill 12½" hole to 1200'. Run and set 1200' of 9 5/8" 40# N-80 LT&C casing. Cement with 375 Sx. of 35/65 Class "C" POZ + 5% salt, + ¼# Flocele/Sx., + 6% Bentonite, tail in with 100 Sx. of Class "C" cement + 2% CaCl. Circulate cement to surface.
4. Drill 8 3/4" hole to 5500'. Run and set 5500' of 7" 26# J-55 LT&C casing. Cement with 500 Sx. of 50/50 POZ Class "C" + 5% Salt, + 10% Gel, tail in with 170 Sx. of Class "C" cement. Estimate top of cement 700' from surface.
5. Drill 6 1/8" horizontal hole 4100'. Run 4150' of 4½" 11.35# N-80 HDL casing. This will not be cemented.

According to THE BUREAU OF LAND MANAGEMENT there is no H²S in this area.

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
		WILDCAT COTTONWOODCREEK EAST - ABO
Property Code	Property Name	Well Number
	"1625" FEDERAL COM.	301
OGRID No.	Operator Name	Elevation
218885	PERENCO, LLC	3584'

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	30	16 S	25 E		660	NORTH	1940	EAST	EDDY

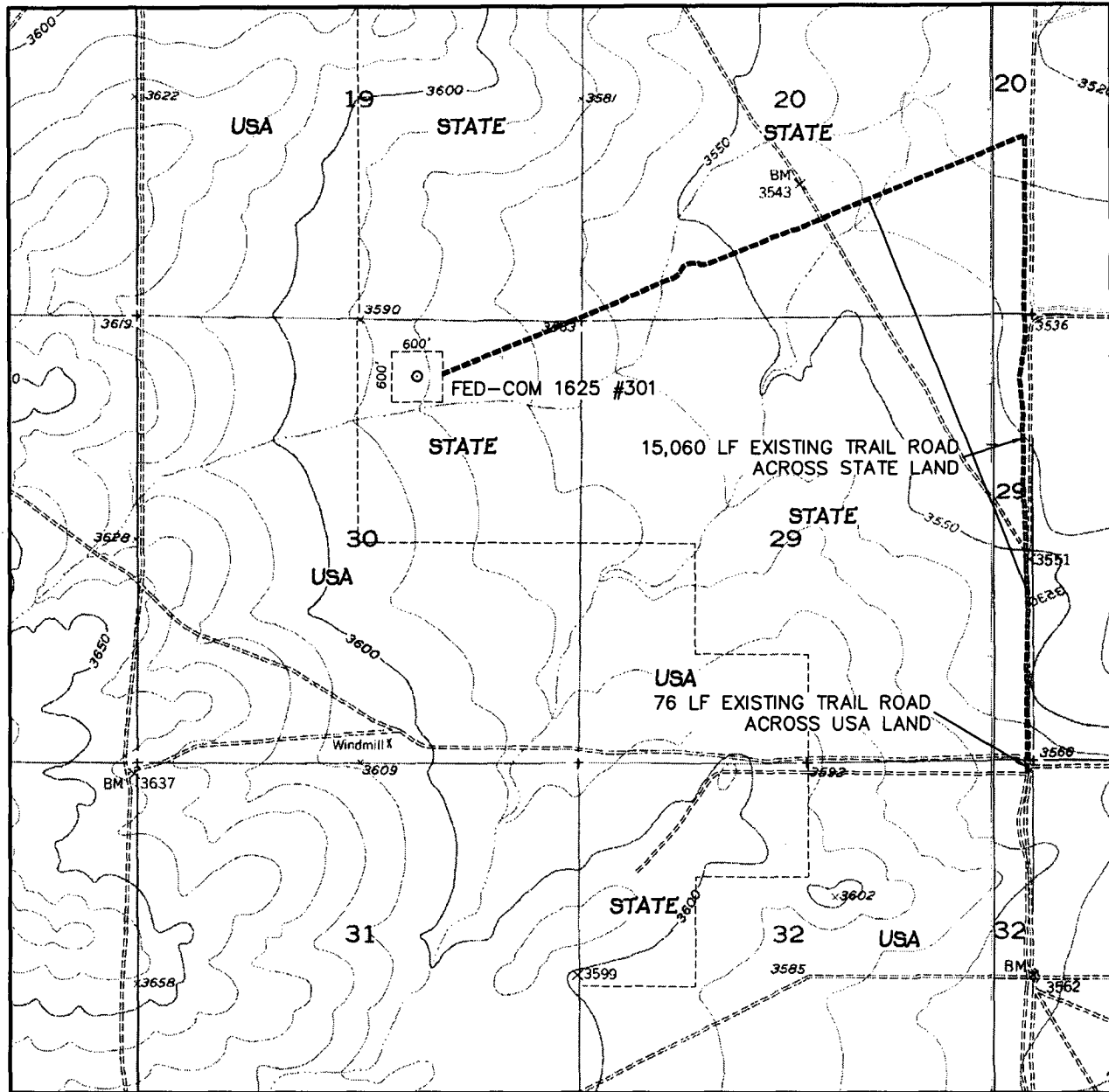
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	30	16 S	25 E		660	SOUTH	1940	EAST	EDDY
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						
320									

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

Plane Coordinate X = 483,280.9 Y = 690,988.6 585.9' 660' 3580.2' 1940' 3587.2' 600' 3581.1' NOTE: 1) Plane Coordinates shown hereon are transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1983. Distances shown hereon are mean horizontal surface values.	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Frank Nix</i> Signature Printed Name Land Manager Title August 16, 2004 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 upervison and that the same is true and orrect to the best of my belief. August 3, 2004 Date Surveyed Signature & Seal of Professional Surveyor 12185 W.O. Number 2004-0528 Certificate No. MACON, McDONALD 12185
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LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
HOPE NE - 10'

SEC. 30 TWP. 16-S RGE. 25-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 660' FNL & 1940' FEL

ELEVATION 3584'

OPERATOR PERENCO, LLC

LEASE "1625" FEDERAL COM.

U.S.G.S. TOPOGRAPHIC MAP
HOPE NE, N.M.



**WEST
COMPANY**
of Midland, Inc.

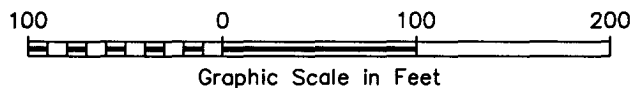
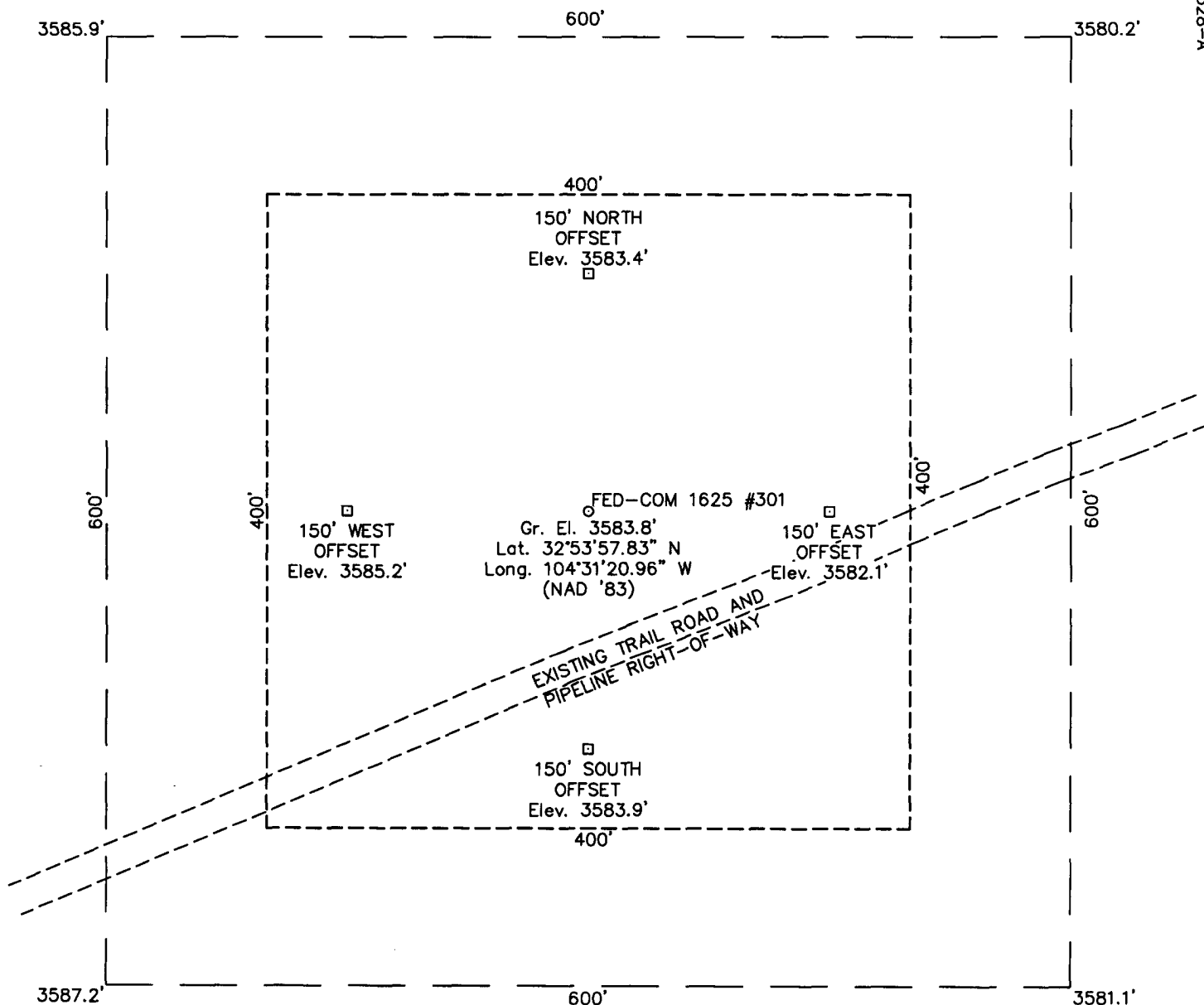
110 W. LOUISIANA, STE. 110
MIDLAND TEXAS, 79701
(432) 687-0865 - (432) 687-0868 FAX

SECTION 30, TOWNSHIP 16 SOUTH, RANGE 25 EAST, N.M.P.M.

EDDY COUNTY

NEW MEXICO

L-2004-0528-A



DRIVING DIRECTIONS

FROM THE INTERSECTION OF U.S. HIGHWAY 82 AND A CALICHE LEASE ROAD ABOUT 5 MILES WEST OF ARTESIA, NM GO NORTH ON SAID LEASE ROAD 1.0 MILE TO A TWO-TRACK ROAD, THEN CONTINUE NORTH ON TWO-TRACK ROAD 3.5 MILES TO ANOTHER TWO-TRACK ROAD ON WEST SIDE OF ROAD. THEN GO SOUTHWEST ON SAID TWO-TRACK ROAD 1.4 MILES TO A POINT ON EAST LINE OF THE WELL PAD FOR PROPOSED LOCATION.

PERENCO, LLC

"1625" FEDERAL COM.

Located 660' FNL & 1940' FEL, Section 30
Township 16 South, Range 25 East, N.M.P.M.
Eddy County, New Mexico

**WEST
COMPANY**
of Midland, Inc.

110 W. LOUISIANA, STE. 110
MIDLAND TEXAS, 79701
(432) 687-0865 - (432) 687-0868 FAX

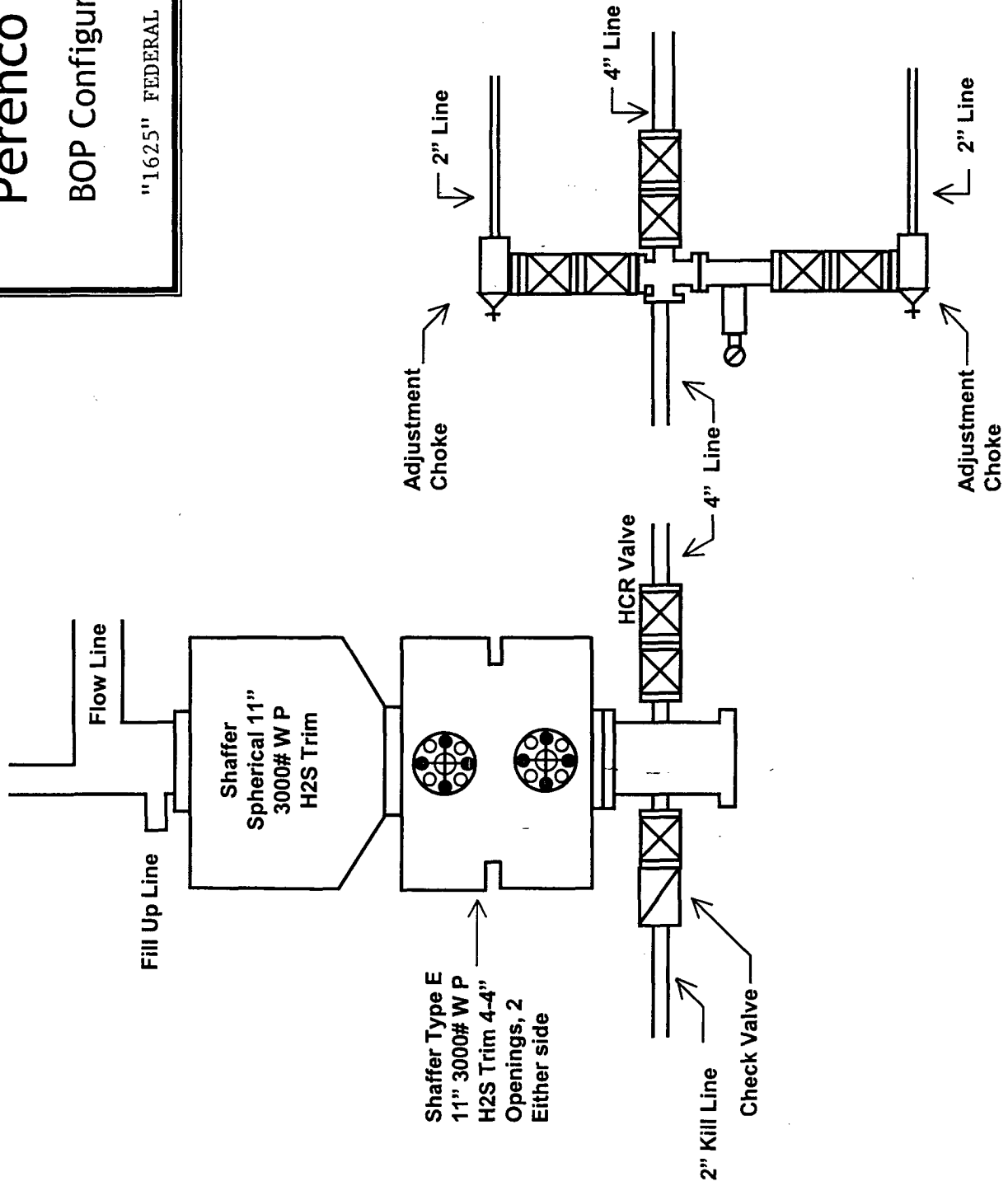
Drawn By: LVA	Date: August 9, 2004
Scale: 1"=100'	Field Book: 287 / 5-8
Revision Date:	Quadrangle: Hope NE
W.O. No: 2004-0528	Dwg. No.: L-2004-0528-A

HERON

110 W. LOUISIANA, STE. 110
MIDLAND TEXAS, 79701
(432) 687-0865 - (432) 687-0868 FAX

Exhibit 1

Perenco LLC
BOP Configuration
"1625" FEDERAL COM. # 301



Drilling Information

H2S

No hydrogen sulfide or other hazardous gasses or fluids have been encountered, reported or are known to exist at this depth in this area.

Shallow Gas

No shallow accumulations of have been encountered, reported or are known to exist at this depth in this area.

Lost Circulation

No major lost circulation zones have been reported in offsetting wells. However in the wider area around the well site, minor lost circulation events have been experienced between 171- 730' and at 4670'.

Conditions at TD

The estimated bottom hole temperature (BHT) at TD is 110 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 2500 psig.

Data Acquisition Program

Mud logging program as specified by staff geologist.

Electric logging program will consist of:

- GR-Dual Laterlog-MSFL 1100' to TD

- GR-Compensated Density-Neutron from 1100' to TD

- GR-Compensated Neutron run from Surface to 1100'

No cores are planned.

WELL : "1625" FEDERAL COM. # 301

FIELD : Wildcat Abo (Gas)

CATEGORY : Horizontal Well

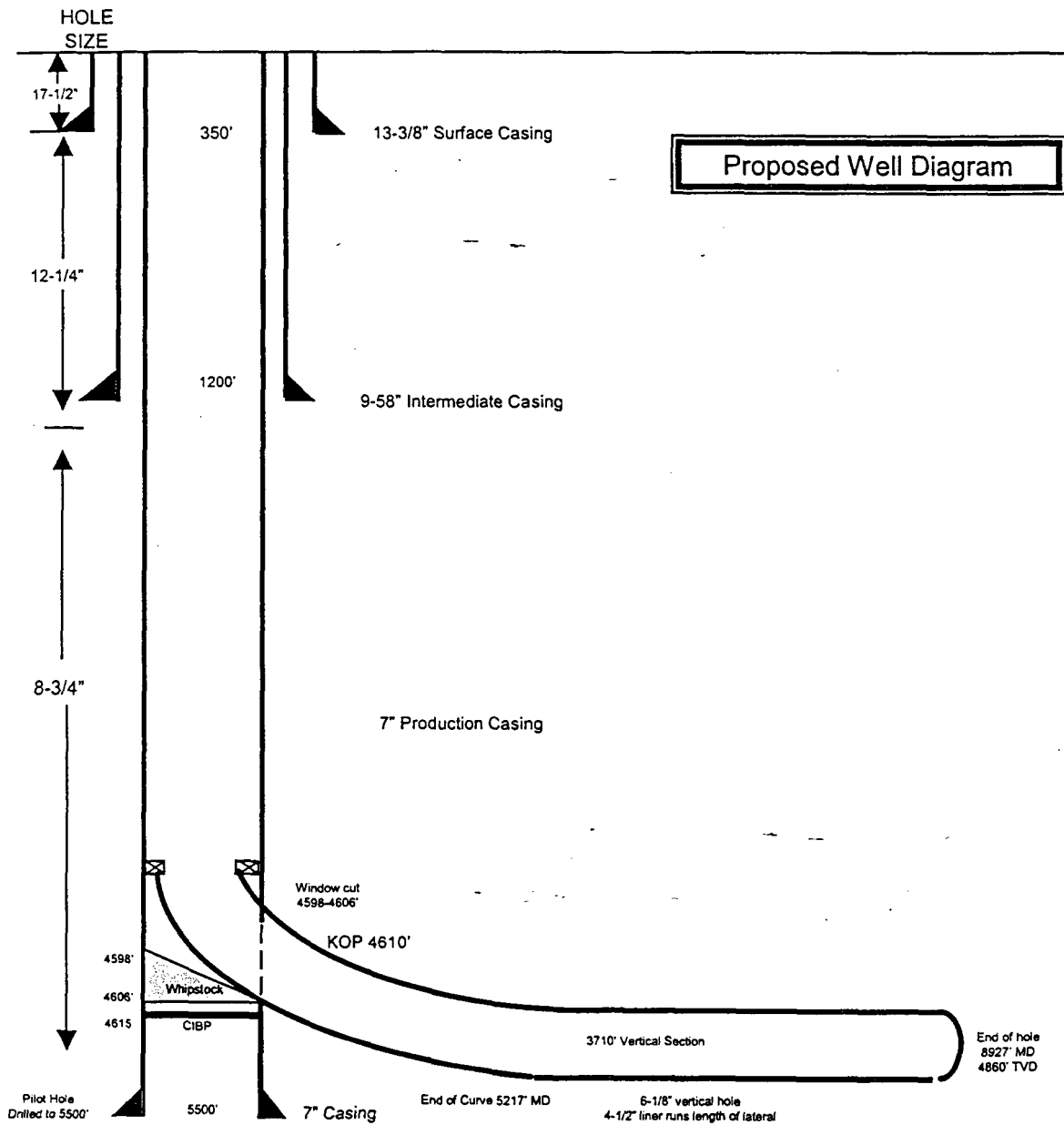
STATE : New Mexico

COUNTY : Eddy

SURFACE LOCATION : Section: 30 Township: 16 Range: 25, FNL: 660 FEL: 1940

BOTTOM HOLE LOCATION : Section: 30 Township: 16 Range: 25, FSL: 660 FEL: 1940

ELEVATION : 3558'

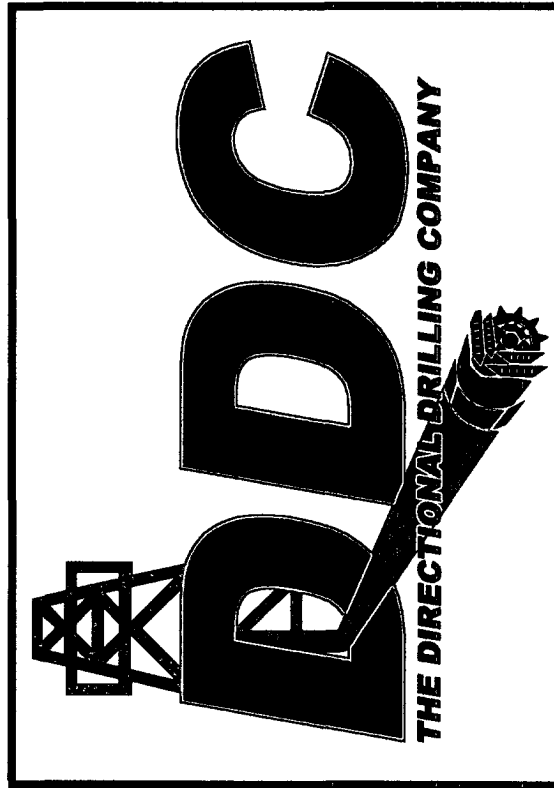


Perenco, Inc.

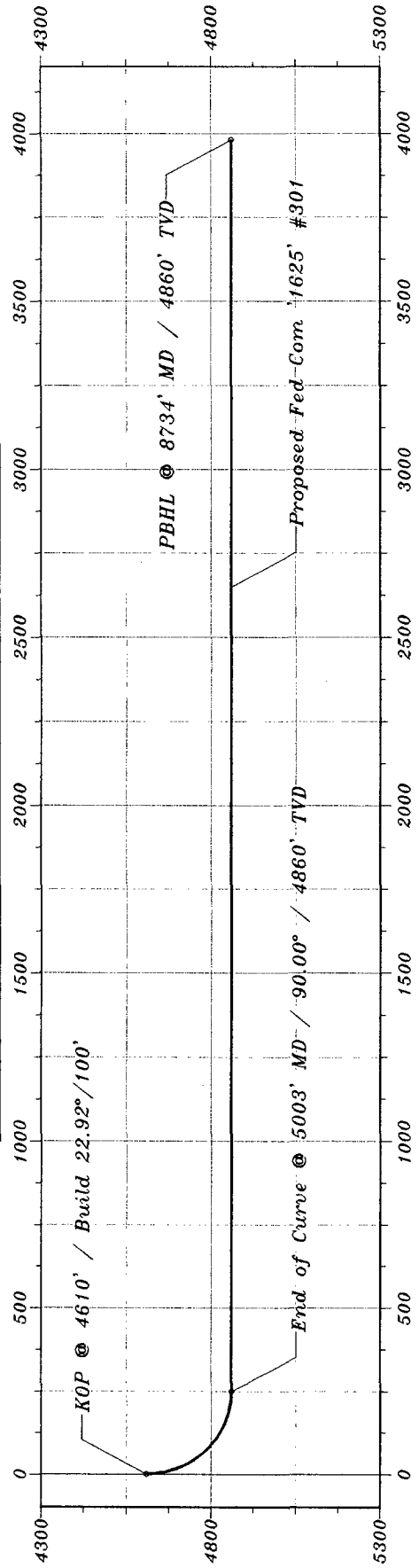
"1625" FEDERAL COM. # 301

Eddy County, New Mexico

Proposal 04-217



VERTICAL SECTION
SCALE: 1 inch = 500'
VERTICAL SECTION PLANE= 179.96





Job Number: Proposal 04-217
 Company: Perenco, Inc.
 Lease/Well: "1625" FEDERAL COM
 Location: Eddy County
 Rig Name:
 RKB:
 G.L. or M.S.L.: 3558'

State/Country: New Mexico / USA
 Declination:
 Grid:
 File name: A:\04-217\04-217.SVY
 Date/Time: 01-Sep-04 / 15:21
 Curve Name: Proposed Fed Com '1625' #301 (r0)

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 179.96
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Dogleg Severity Deg/100	CLOSURE Distance FT	Direction Deg	Grid X FT	Grid Y FT
KOP @ 4610' / Build 22.92°/100'											
4610.00	.00	179.99	4610.00	.00	.00	.00	.00	.00	.00	.00	.00
4640.00	6.88	179.96	4639.93	-1.80	.00	1.80	22.92	1.80	179.96	.00	-1.80
4670.00	13.75	179.96	4669.43	-7.17	.00	7.17	22.92	7.17	179.96	.00	-7.17
4700.00	20.63	179.96	4698.07	-16.03	.01	16.03	22.92	16.03	179.96	.01	-16.03
4730.00	27.50	179.96	4725.44	-28.25	.02	28.25	22.92	28.25	179.96	.02	-28.25
4760.00	34.38	179.96	4751.16	-43.67	.03	43.67	22.92	43.67	179.96	.03	-43.67
4790.00	41.25	179.96	4774.85	-62.05	.04	62.05	22.92	62.05	179.96	.04	-62.05
4820.00	48.13	179.96	4796.16	-83.13	.06	83.13	22.92	83.13	179.96	.06	-83.13
4850.00	55.00	179.96	4814.80	-106.62	.07	106.62	22.92	106.62	179.96	.07	-106.62
4880.00	61.88	179.96	4830.49	-132.17	.09	132.17	22.92	132.17	179.96	.09	-132.17
4910.00	68.75	179.96	4843.01	-159.41	.11	159.41	22.92	159.41	179.96	.11	-159.41
4940.00	75.63	179.96	4852.18	-187.95	.13	187.95	22.92	187.95	179.96	.13	-187.95
4970.00	82.50	179.96	4857.87	-217.39	.15	217.39	22.92	217.39	179.96	.15	-217.39
5000.00	89.38	179.96	4859.99	-247.30	.17	247.30	22.92	247.30	179.96	.17	-247.30
End of Curve @ 5003' MD / 90.00° / 4860' TVD											
5002.70	90.00	179.96	4860.00	-250.00	.17	250.00	22.92	250.00	179.96	.17	-250.00
5402.70	90.00	179.96	4860.00	-650.00	.44	650.00	.00	650.00	179.96	.44	-650.00
5802.70	90.00	179.96	4860.00	-1050.00	.71	1050.00	.00	1050.00	179.96	.71	-1050.00
6202.70	90.00	179.96	4860.00	-1450.00	.98	1450.00	.00	1450.00	179.96	.98	-1450.00
6602.70	90.00	179.96	4860.00	-1850.00	1.25	1850.00	.00	1850.00	179.96	1.25	-1850.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Dogleg Severity Deg/100	C L O S U R E		Distance FT	Direction Deg	Grid X FT	Grid Y FT
7002.70	90.00	179.96	4860.00	-2250.00	1.53	2250.00	.00	2250.00	179.96	1.53	-2250.00	1.53	-2250.00
7402.70	90.00	179.96	4860.00	-2650.00	1.80	2650.00	.00	2650.00	179.96	1.80	-2650.00	1.80	-2650.00
7802.70	90.00	179.96	4860.00	-3050.00	2.07	3050.00	.00	3050.00	179.96	2.07	-3050.00	2.07	-3050.00
8202.70	90.00	179.96	4860.00	-3450.00	2.34	3450.00	.00	3450.00	179.96	2.34	-3450.00	2.34	-3450.00
8602.70	90.00	179.96	4860.00	-3850.00	2.61	3850.00	.00	3850.00	179.96	2.61	-3850.00	2.61	-3850.00

PBHL @ 8734' MD / 4860' TVD

8733.80	90.00	179.96	4860.00	-3981.10	2.70	3981.10	.00	3981.10	179.96	2.70	-3981.10	2.70	-3981.10
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PLAN VIEW
SCALE: 1 inch = 500'

