Form 3160 -3 (April 2004) 1301 W. Grand Avenue

Artesia, NM 88210

FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

5. Lease Serial No.

la. Type of work: DRILL	REENTER	7 If Unit or CA Agreement, Name and No.
lb. Type of Well: Oil Well Gas Well	Other Single Zone Multiple Z	8. Lease Name and Well No. 1625 Fed Com#271 3 102
2. Name of Operator Perenco LLC		9. APT Well No. 30-015-34195
3a. Address 6 Desta Drive, Suite 6800, Midland, T		10. Field and Pool, or Exploratory
	(432) 682 8553 RECE	
4. Location of Well (Report location clearly and in according	MAY D	11. Sec., T. R. M. or Blk. and Survey or Area
At surface 660 FNL & 660 FWL un	in letter D	
At proposed prod. zone Bottom Hole Location :	660 FSL & 660 FWL unit Letter MODE	
4. Distance in miles and direction from nearest town or po	st office*	12. County or Parish 13. State
	O LIKE APPROVAL BY STATE	Eddy NM
5. Distance from proposed* location to nearest property or lease line, ft.	16. No. of acres in lease 17.	Spacing Unit dedicated to this well
(Also to nearest drig. unit line, if any) 660 ft	600	320 acres
8. Distance from proposed location*	19. Proposed Depth 20.	BLM/BIA Bond No. on file
to nearest well, drilling, completed, applied for, on this lease, ft. N/A	5100'	NMB000094
1. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
3499 GL	08/01/2005	1 month
	24. Attachments	
he following, completed in accordance with the requirement	ats of Onshore Oil and Gas Order No.1, shall be attached	ed to this form:
. Well plat certified by a registered surveyor. A Drilling Plan.	4. Bond to cover the of Item 20 above).	perations unless covered by an existing bond on file (see
3. A Surface Use Plan (if the location is on National For SUPO shall be filed with the appropriate Forest Service		ific information and/or plans as may be required by the
25. Signature	Name (Printed/Typed)	Date
Lisa Hunt	lisa Hunt	02/18/2005
itle Regulatory Technician		
Approved by (Signature) /s/ Tony J. Herrell	Name (Printed/Typed)	Herrell Date MAY 0 3 2005
FIELD MANAGER	Office CARLSBAD	
Application approval does not warrant or certify that the ap onduct operations thereon. Conditions of approval, if any, are attached.	oplicant holds legal or equitable title to those rights in t	
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, tates any false, fictitious or fraudulent statements or repres	make it a crime for any person knowingly and willful sentations as to any matter within its jurisdiction.	lly to make to any department or agency of the United

*(Instructions on page 2)

437 687 1575 Larry Gillere

Resmell Controlled Water Bealth

WITNESS 93/8" CEMENT JOB

General requirements and ATTACHED

, Hobbs, NM 88240

and Avenue, Artesia, NM 88210

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

Oil Conservation Division

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Form C-144

June 1, 2004

1220 South St. Francis Dr. Santa Fe, NM 87505 Pit or Below-Grade Tank Registration or Closure

		de Tank Registra			RECEIVED MAR 0 3 2005
Is pit or below	-grade tan	k covered by a "general	l plan"? Yes 🗌 No 💢	1.	MAR A S
Type of action: Registra	ion of a pit o	or below-grade tank X Clos	ure of a pit or below-grade ta	ink []	3 2005
Operator: Perenco LLC	Telephone	e: <u>432 688-0951</u>	e-mail address: _lhunt@u	s.perenco.com	TESIA_
Address: 6 Desta Drive, Suite 6800, Midland, Texas 79705					
Facility or well name: 1625 Fed Com #271	AP	I #:	U/L or Qtr/Qtr _D	Sec <u>27</u>	T 16S R 25E
County: Eddy	Latitude _	325357.34 N	Longitude <u>1042846.99</u>	WNA	D: 1927 🔲 1983 💢
Surface Owner: Federal X State 🗌 Private 🔲 Indian 🗌					
<u>Pit</u>		Below-grade tank	VI-		
Type: Drilling Production Disposal			of fluid:		
Workover Emergency		Construction material:			
Lined \(\sqrt{\sqrt{Unlined}} \)		Double-walled, with leak d	etection? Yes 🔲 If not, exp	olain why not.	
Liner type: Synthetic Thickness 12 mil Clay					
Pit Volume 12,000 bbl					
Depth to ground water (vertical distance from bottom of pit to	seasonal	Less than 50 feet	(2	0 points)	
high water elevation of ground water.)		50 feet or more, but less tha	an 100 feet (1	0 points)	
ingi. Water ord and or ground water,		100 feet or more	(0 points)	\circ
Wellhead protection area: (Less than 200 feet from a private d	magtia	Yes	(2	0 points)	
water source, or less than 1000 feet from all other water source	Į.	(No)		0 points)	\circ
water source, or less than 1000 feet from an other water source	8-)	V 41 200 C		0	
Distance to surface water: (horizontal distance to all wetlands,	playas,	Less than 200 feet	1 '	0 points)	
irrigation canals, ditches, and perennial and ephemeral waterco	urses.)	200 feet or more, but less th	1 `	0 points)	$\widehat{}$
		1000 feet or more		0 points)	<u>O</u>
		Ranking Score (Total Poin	nts)		0
f this is a pit closure: (1) Attach a diagram of the facility show	ng the pit's	relationship to other equipme	ent and tanks. (2) Indicate di	sposal location: (e	check the onsite box if
our are burying in place) onsite 🗌 offsite 🔲 If offsite, name	of facility		. (3) Attach a general descri	ption of remedial:	action taken including
emediation start date and end date. (4) Groundwater encountered					=
5) Attach soil sample results and a diagram of sample locations					•
Additional Comments:					
			······································		
		·····			
	+				
	+				
	,				
	 				
I hereby certify that the information above is true and complete	to the best o	my knowledge and belief.	further certify that the ab	ove-described pit	or below-grade tank
has been/will be constructed or closed according to NMOC	guidennes	A, a general permit □, or	an (attached) afternative (JCD-approved pi	an ∐.
Date: 3/1/05		. 0	, /		
Printed Name/Title Lisa Hunt - Regulatory Technician		Signature	2 Street		
Your certification and NMOCD approval of this application/ck otherwise endanger public health or the environment. Nor does regulations.	sure does no it relieve th	ot relieve the operator of liabile operator of its responsibility	lity should the contents of the of for compliance with any oth	e pit or tank contar ner federal, state, o	ninate ground water or r local laws and/or
Approval: Printed Name/Title	P	Signature		MAR	4 2005

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD-ARTESIA 5. Lease Serial No.

FORM APPROVED OMB No. 1004-0135 Expires November 30, 2000

SUNDA	TY NOTICES AND REPORTS	S ON V	ÆLLS	_		NM-10	108	
abandoned w	his form for proposals to dril vell. Use Form 3160-3 (APD) fo	or to	re-enter al proposals.	Π		6. If India	an, Al	lottee or Tribe Name
SUBMIT IN TE	RIPLICATE - Other instruction	ons on	reverse s	side	9	7. If Unit	or C	VAgreement, Name and/or No.
1. Type of Well						7		
Oil Well 🛛 Gas Well	Other					8. Well N	lame :	and No.
2. Name of Operator						FEDER	AL-	COM. 1625 # 271
PERENCO LLC.	(FRANK NIX 432-682-8	553)				9. API W	ell No).
3a. Address 6 DESTA DRI	VE 3b	. Phone	No. (include a	rea	code)	30	<u>`C</u>	<u>>15-34195</u>
SUITE 6800 MIDLAN		432-6	82-8553			10. Field a	nd Po	ol, or Exploratory Area
	., T., R., M., or Survey Description)					COTTON	WOO!	D ABO EAST GAS
	200' FNL & 700' FWL SE					11. County	or Pa	irish, State
BOTTOM HOLE LOCATI	ON CE) FSL & 660' FWI	SEC	. 27 T16	S-1	R25E 	EDDY C	0.	NEW MEXICO
12. CHECK AF	PPROPRIATE BOX(ES) TO INI	ICAT	ENATURI	E 0	F NOTICE, R	EPORT, O	R O	THER DATA
TYPE OF SUBMISSION	<u> </u>		TYPE	E OI	FACTION			
Day of the state o		Реереп	!		Production (Star	√Resume)		Water Shut-Off
VX Notice of Intent	Alter Casing	racture	reat		Reclamation			Well Integrity
Subsequent Report	Casing Repair	ew Con	struction		Recomplete		_	Other Move
	Change Plans	ug and	Abandon		Temporarily Ab	andon		Location
Final Abandonment Notice	Convert to Injection 🔲 I	ug Baci	: 1		Water Disposal			
1. Perenco reques TO" To section 27	ts the approval to mov 660' FNL & 660' FWL SE 700' FWL & 200' FNL SE zional well and the ho T16S-R25E. this move is that wate	e the	ir loca 27 Tl6 27 Tl6 11 ente	tic S-R S-R	on from; R25E EDDY R25E EDDY The pay zo	CO. NEW CO. NEW ne at 66	О(мех мех 60'	JUL 0 6 2005 CD-ARTESIA KICO KICO FNL & 660'FWL
14. I hereby certify that the foregoin Name (Printed/Typed)	g is true and correct		Title A	·	·			
Joe T. Janica	——————————————————————————————————————			ger				
Signature Jack	T / coner	7	Date 05	/18	3/05			
	THIS SPACE FOR F			TE	OFFICE USE			··
Conditions of approval, if any, are a	Joe G. Lara attached. Approval of this notice does for equitable title to those rights in the	notwarn	IN FIEL		MANAC		ate	JUL 0 1 2005
which would entitle the applicant to c	onduct operations thereon.				ARLSBAI			OFFICE
Title 18 U.S.C. Section 1001 and Tit States any false, fictitious or fraudule	le 43 U.S.C. Section 1212, make it a crint statements or representations as to any	me for an	y person kno rithin its juris:	wing diction	gly and willfully i	to make to any	depa	artment or agency of the United

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

Τп Drawer DD, Artesia, NM 88211-0719

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

DISTRICT IV 2040 S Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION 2040 S Pacheco Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name	
	75255	COTTONWOOD CREEK EAST ABO GAS	
Property Code		Property Name COM 1625	Well Number 271
ogrid No. 218885		Derator Name RENCO, LLC	Elevation 3499'

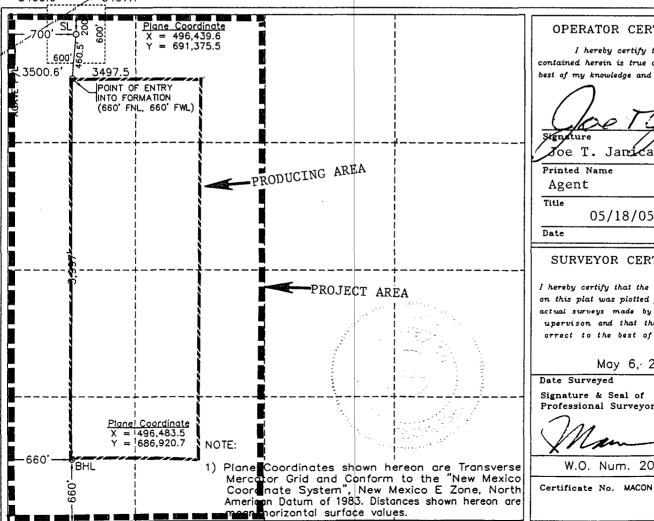
Surface Location

UL or lot N	o. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	16 S	25 E		200	NORTH	700	WEST	EDDY

Bottom Hole Location If Different From Surface

ſ	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	M	27	16 S	25 E		660	SOUTH	660	WEST	EDDY
	Dedicated Acre	s Joint o	r Infill Co	nsolidation (ode Or	ier 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 3499.9 ^{3497.1}



OPERATOR CERTIFICATION

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

05/18/05

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.

May 6, 2005

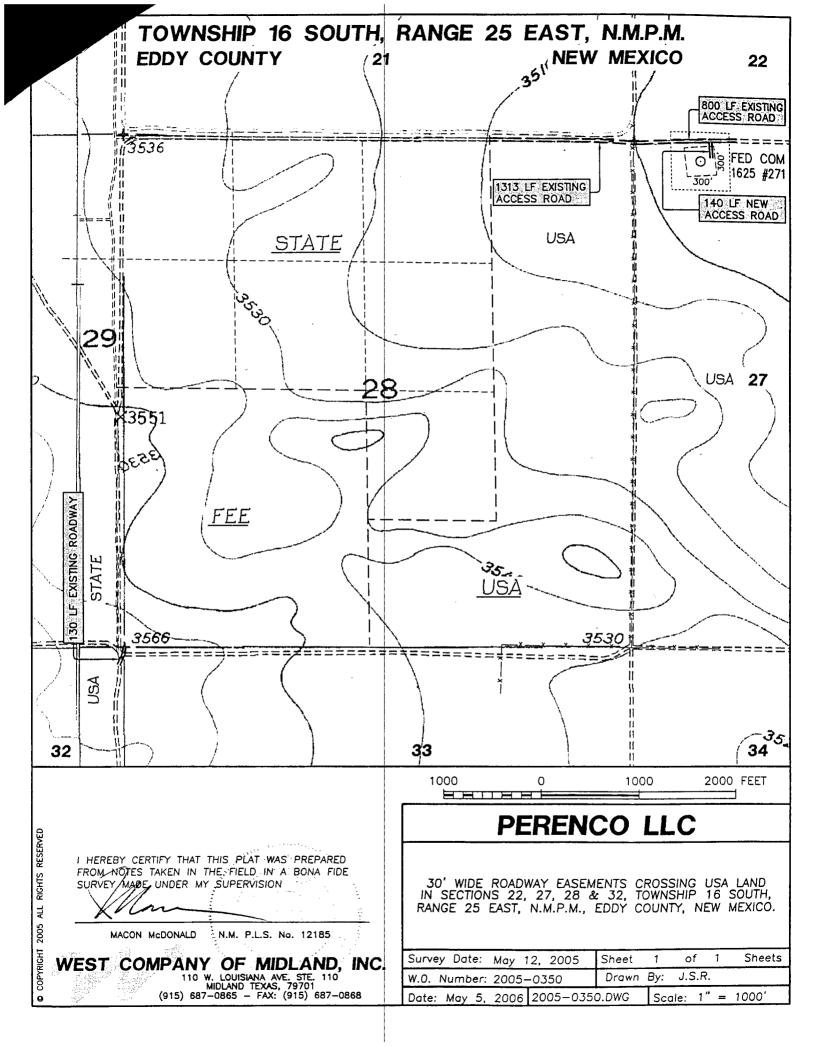
Professional Surveyor

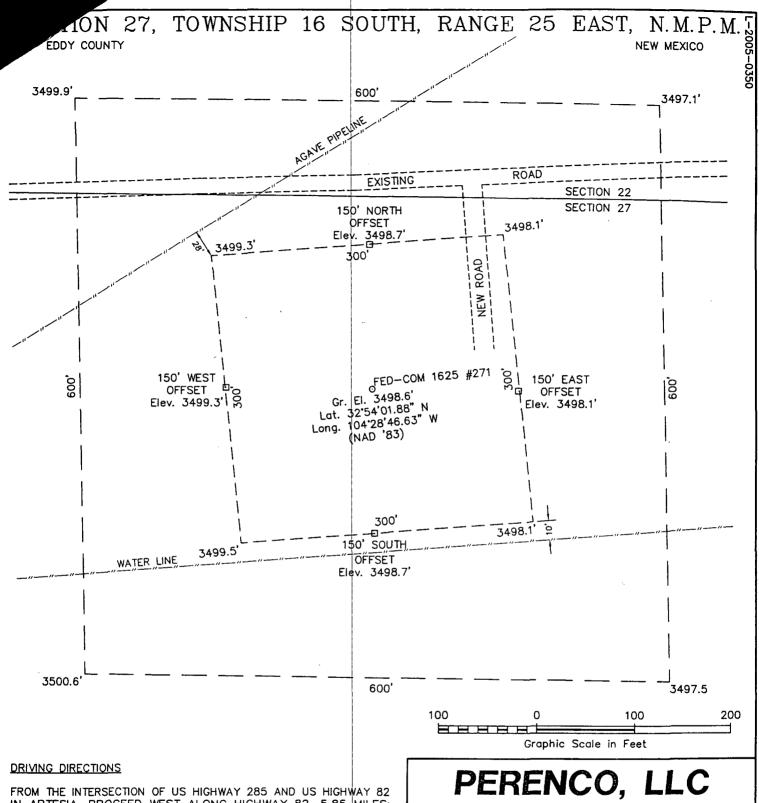
W.O. Num. 2005-0350

Certificate No. MACON McDONALD

12185

JSR





FROM THE INTERSECTION OF US HIGHWAY 285 AND US HIGHWAY 82 IN ARTESIA, PROCEED WEST ALONG HIGHWAY 82, 5.85 MILES; THEN NORTH ALONG PERENCO LEASE ROAD (COUNTY ROAD "LONESOME TRAIL") 3 MILES; THEN NORTH ALONG EXISTING 2—TRACK ROAD ON EAST SIDE OF FENCE 1 MILE, THEN EAST ALONG EXISTING ROAD 1.1 MILE. LOCATION WILL BE SOUTH 250± FEET, IN PASTURE

WEST COMPANY of Midland, Inc.

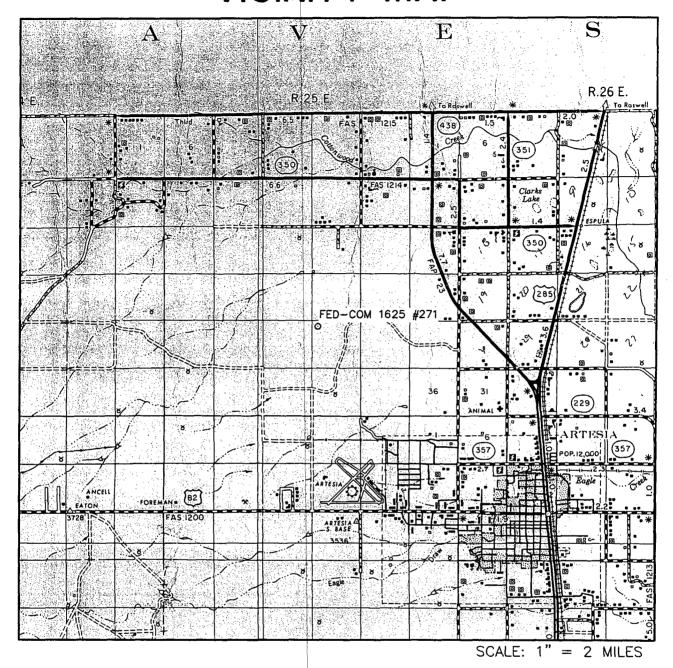
110 W. LOUISIANA, STE. 110 MIDLAND TEXAS, 79701 (432) 687-0865 - (432) 687-0868 FAX

FED-COM 1625 #271

Located 200' FNL & 700' FWL, Section 27 Township 16 South, Range 25 E, N.M.P.M. Eddy County, New Mexico

Drawn By: JSR	Date: May 12, 2005
Scale: 1"=100'	Field Book: 272 / 53-54
Revision Date:	Quadrangle: Espuela
W.O. No: 2005-0350	Dwg. No.: L-2005-0350

VICINITY MAP



SEC. 27 TWP. 16-S RGE. 25-E SURVEY N.M.P.M. COUNTY EDDY DESCRIPTION 660' FNL & 660' FWL ELEVATION 3499' OPERATOR PERENCO, LLC

LEASE FED-COM 1625



WEST

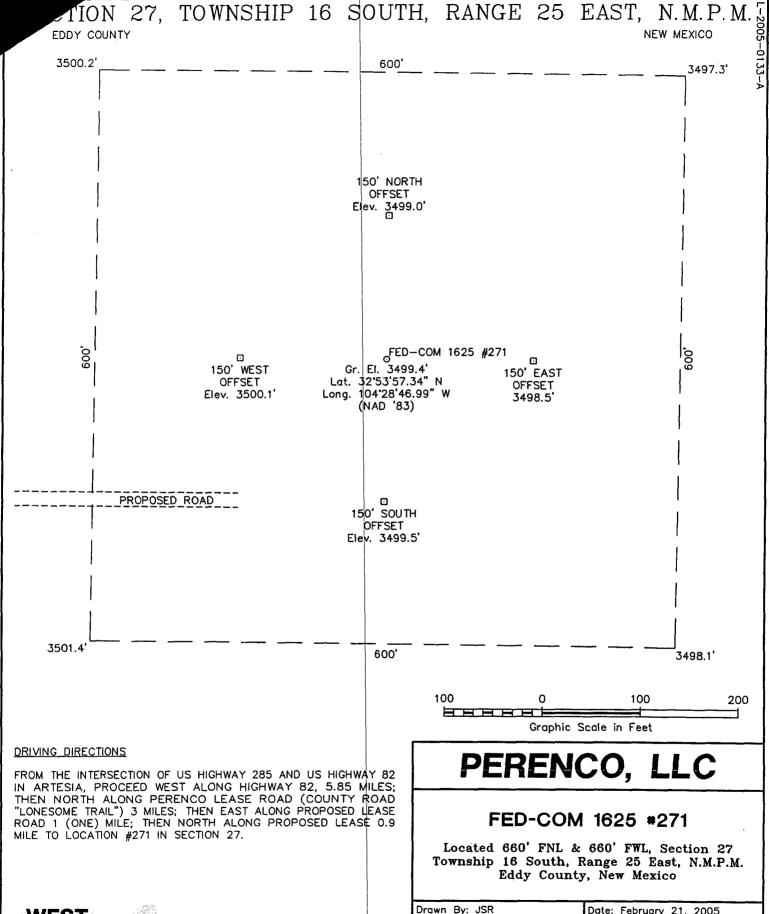
COMPANY

110 W. LOUISIANA, STE. 110

MIDLAND TEXAS, 79701

of Midland, Inc.

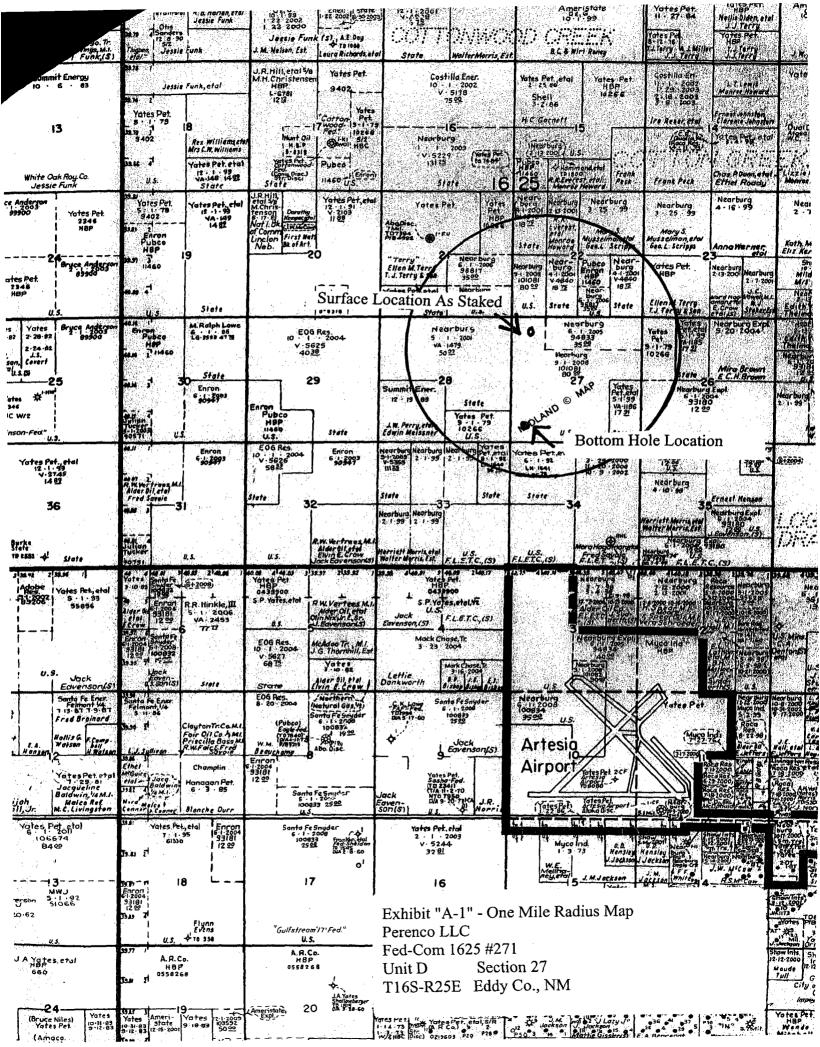
(432) 687-0865 - (432) 687-0868 FAX



WEST COMPANY of Midland, Inc.

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

Drawn By: JSR	Date: February 21, 2005
Scale: 1"=100'	Field Book: 272 / 53-54
Revision Date:	Quadrangle: Espuela
W.O. No: 2005-0133	Dwg. No.: L-2005-0133-A





PERENCO

Drilling Program: 1625 Fed Com #271

Objectives

Drill vertically to ~5100' TD and then drill laterally to test the lower Abo formation for hydrocarbons.

Location

Surface Location

Section: 27 Township: 16 Range: 25 FNL: 660 FWL: 660

Bottom Hole Location

Section: 27 Township: 16 Range: 25 FSL: 700 FWL: 660

Elevation 3499'

Estimated Days to Completion

30 days drilling

30 days testing and completion

Geology

Estimated Tops of Important Geological Markers

Chalk Bluff	0-200'
San Andres	525'
Glorieta	1713'
Tubb	3174'
Abo	3855'
Wolfcamp	5015'
TD	5100'

Estimated Depths of Anticipated Fresh Water and Protential Hydrocarbon Producing Zones

Quanternary Alluvium	0-200'	Fresh Water
San Andres	525'	Oil
Glorieta	1713'	Oil/Gas
Tubb	3174'	Oil/Gas
Abo Pay	4875'	Gas

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 13-3/8" casing at 350' and circulating cement back to surface, and 9-5/8" casing will be set at 1200' with cement circulated back to surface.

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

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 Control

Minimum Specifications for Pressure Control (See exhibit 1)

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (2000 psi WP) preventer and an annular preventer (2000-psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on top and drill pipe rams on bottom. All BOP's and accessory equipment will be tested in accordance with Onshore Oil & Gas order No. 2. Before drilling out of 1st intermediate casing, the ram-type BOP and accessory equipment will be tested to 2000/1000 psi and the annular to 2000 psig pressure.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

Auxiliary Well Control and Monitoring Equipment

A kelly cock will be kept in the drill string at all times.

A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

A mud-logging unit will be continuously monitoring drilling penetration rate and hydrocarbon shows from 1100' to TD of Horizontal Lateral.

Mud Program - Summary

The well will be drilled to TD with a Fresh Water /gel mud system. The applicable depths and properties of this system are as follows:

Depth	Туре	(PPG) Wt(sec)	Viscosity	Water loss(cc)
0-1200	Fresh Water (Spud Mud)	8.5	28	N.C.
1200-5100'	F. Water Gelled System	9.3	28-30	N.C.
KOP - TD	Fresh Water w/ Polymer Sweeps	8.4-8.6	28	N.C.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the well site at all times.

Casing & Cementing Program - Summary

Casing

Hole Size	Interval OD Casing		Weight Grade Jt.
17-1/2"	0-350'	13-3/8"	48# H-40 ST&C
12-1/4"	0-1200'	9-5/8"	40# N-80 LT&C
8-3/4"	0-5500'	7"	26# J-55 LT&C
6-1/8"	4850-9000'	4-1/2"	11.35# N-80 HDL

Cement

17-1/2" Surface Casing	Cement to surface with 450 sx Class C w/ 2% CaCl
9-5/8" Intermediate	Cement to surface. Lead with 375 sx 65/35 Class C
	Poz + 5% NaCl + .25#/sk Celloflake + 6% Bentonite.
]	Tail with 100 sx C + 2% CaCl
7" Production	Cement w/ Lead 500 sx 50/50 Class C Poz + 5% NaCl +
	10% gel. Tail w/ 170 sx Class C
4-1/2" slotted liner	Will not be cemented

Drilling Program

1. Surface-350'

- 1.1 MIRU
- 1.2 P/U 17.5" bit and surface BHA, drill to 350'

Surface BHA	Mud Characteristics			
1 x Drill Bit	17.5"	Mud Weight	8.4	
1 x Bit Sub	8"	Viscosity	28	
1 x Crossover	8"	рН	11	
1 x Shock absorber	8"	Other		
8 x Collar	8"			

- 1.3 Circulate high-viscosity sweep
- 1.4 POOH and RIH 13-3/8 surface casing to 350'.

Size	13-38"	Cement	Class C + 2% CaCl
Specification	40# N-80 (LT&C)	# Sacks	450
# Joints	8	Estimated TOC	Surface

- 1.5 Cement and circulate to surface
- 1.6 Cut off casing and weld on 13-3/8" casing head
- 1.7 NU spacer spool, flowlines, and annular BOP
- 1.8 Per NM regs, wait until lower 20% of cement has reached a compressive strength of 500 psi, at least 8 hours.

2. 350'- 1100'

2.1 P/U 12-1/4 bit and intermediate BHA. RIH to TOC. Tag and note depth.

Intermediat	Intermediate BHA			
1 x Drill Bit	12-1/2"	Mud Weight	8.4	
1 x Shock absorber	8"	Viscosity	28	
2 Drill Collar	8"	рН	11	
1 x IB Stabilizer	12-1/4	Other		
1 x Collar	8"			
1 x IB Stabilizer	12-1/4"	_		
5 x Collar	8"			
1 x Cross Over	8"	7		
23 x Collar	6-1/4"	7		

- 2.2 Pressure test casing to at least 600 psi
- 2.3 Drill out plug and cement.

- 2.4 Drill ahead to 1200'
- 2.5 Circulate high-viscosity sweep
- 2.6 POOH and lay down 12-1/2 BHA
- 2.7 P/U and RIH 9-5/8 intermediate casing to 1200'

Size	9-5/8"	Cement	Class C + 5% CaCl + 5% NaCl + 6% Bentonite + 0.25 lb/sk celloflake
Specification	40# N-80 (LT&C)	# Sacks	375 + 100 tail
# Joints	27	Estimated TOC	Surface

- 2.8 Cement and circulate to surface
- 2.9 Install 9-5" casing head
- 2.10 NU spacer spool, flow lines, and annular BOP
- 2.11 Test BOP to 2000 psi, annular to 1500 psi

3. 1200 - 5500'

- 3.1 P/U 8-3/4" bit and production string BHA. RIH, tag and note TOC
- 3.2 Drill through cement and plug. Continue to 5100' (TD to be finalized by geologist)

ВНА		Mud Characteristics		
1 x Drill Bit	8-3/4"	Mud Weight	9.3	
1 x Tri Collar	8-3/4"	Viscosity	28	
2 x Drill Collar	6-1/4"	pH	11	
1 x IBS	8-3/4"	Other	<u> </u>	
26 x Collar	6-1/4"			

- 3.3 At TD, circulate to clean hole
- 3.4 Spot high-viscosity mud on bottom. POOH
- 3.5 Run triple combo log (GR-Dual Laterlog-MSFL and GR-Compensated Density-Neutron)
- 3.6 P/U and RIH 7" Production Casing

Size	7"	Cement	Class C + 5% NaCl + 10% Bentonite + 0.25 lb/sk celloflake
Specification	26# L80 (LT&C)	# Sacks	500 + 170 tail
# Joints	120	Estimated TOC	900'

- 3.7 Cement, circulate TOC to 1000' (200' overlap with intermediate casing)
- 3.8 Install 7" casing head
- 3.9 NU spacer spool, flow lines, and annular BOP

3.10 Run Cement Bond Log

4. Lateral Section

- 4.1 Run cast iron bridge plug on wireline to 4535 ft
- 4.2 RIH with whipstock assembly
- 4.3 RIH with wireline to check orientation: 180° (south)
- 4.4 Set whipstock and shear off. POOH W/S setting string
- 4.5 RIH with window mill, cut window between 4507' and 4525' including 8 ft of formation to create rat hole
- 4.6 Circulate high viscosity sweep
- 4.7 P/U and RIH Lateral section BHA, drill and kickoff to west, building angle at 23°/100ft degrees until 90° is reached.

Lateral Sect	ion BHA	Mud Chara	acteristics	
Bit	6-1/8	Mud Weight	8.4	
Motor (2.5 Deg)	4-3/4	Viscosity	28	
Float Sub	4-11/16	pН	11	
UBHO	4-5/8	Other		
Monel Collar	4-3/4			
Monel Collar	4-11/16	7		

- 4.8 Drill and slide horizontal section to 9000' MD (4875' TVD)
- 4.9 At TD circulate to clean hole
- 4.10 Spot slider fluid
- 4.11 POOH

5. Completion

- 5.1 RIH with 105 joints pre-perforated 11.6# L080 (ULTFS) 4.5" liner and packer hanger.
- 5.2 Set hanger at 4400 ft.
- 5.3 POOH
- 5.4 Nipple Down BOPs
- 5.5 R/D and release drilling rig

6. Stimulation

- 6.1 RU Stinger's Casing Saver
- 6.2 RU Acid truck
- 6.3 Test lines to 7500 psi
- 6.4 Load well with 40 bbls water
- 6.5 Pump 65,000 bbls 15% NEFE HCL at 100 bbls/min
- 6.6 Flush with 245 bbls slick water

Surface Use and Operations Plan

EXISTING ROADS

To be proposed

PROPOSED ACCESS ROAD

To be proposed

LOCATION OF EXISTING WELLS

Exhibit #3 shows all existing wells within a one-mile radius of this well

LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

There are no existing production facilities. If production is encountered, a temporary facility will be established on the drill pad, and if warranted, a production facility would be built at a later date in the immediate area of the drill pad location. If the well is productive, the flowline would also be located on the drill-pad site and no additional disturbance will occur.

LOCATION AND TYPE OF WATER SUPPLY

Fresh water for drilling will come from commercial sources and transported to the well site over the roads as described above.

PLANS FOR RESTORATION OF THE SURFACE

After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Location will be cleaned of all trash and junk to leave the well in an aesthetically pleasing condition as possible.

Any unguarded pits containing fluid will be fenced until they are dry and back filled.

After abandonment of the well, surface restoration will be in accordance with current federal laws and regulations. Location will be cleaned, and the well pad removed to promote vegetation and disposal of human waste will be complied with. Trash, waste paper, garbage and junk will be hauled to an approved disposal site in an enclosed trash trailer.

All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations.

ANCILLARY FACILITIES

No airstrip, campsite, or other facilities will be built.

WELL SITE LAYOUT

Exhibit #4 shows the relative location and dimensions of the well pad.

OTHER INFORMATION

The area around the well site is grassland and the topsoil is duned and sandy. The vegetation is native scrub grasses with abundant oakbrush, sagebrush, yucca, and prickly pear.

CERTIFICATION

I HEREBY CERTIFY that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Perenco LLC and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Frank This

Frank Nix Land Manager

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

APPLICABILITY:

The provisions of this plan are effective when drilling operations are conducted in areas where zones may be penetrated that are known to contain, or may be reasonably expected to contain, hydrogen sulfide gas in concentrations of 100 parts per million or more.

TRAINING REQUIREMENTS:

- A. When conducting drilling operations in an area where hydrogen sulfide gas might be encountered, all personnel at the well site will have had proper training in the following areas:
 - 1. The hazards and characteristics of hydrogen sulfide gas (H2S).
 - 2. Toxicity of hydrogen sulfide and sulfur dioxide.
 - 3. Hydrogen sulfide gas detectors, warning systems, evacuation procedures, and proper use and maintenance of personal protective equipment.
 - 4. Proper rescue procedures, first aid, and artificial respiration.
- B. In addition, supervisory personnel will be trained in the following areas:
 - 1. The effects of hydrogen sulfide on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
 - 2. Corrective action and shut-in procedures when drilling or reworking a well, and blowout prevention and well control procedures.
 - 3. The contents and requirements of the Hydrogen Sulfide Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable hydrogen sulfide zone (within 3 days or 500 feet) and weekly hydrogen sulfide and well control drills for all personnel in each crew. The initial training session will include a review of the site specific Hydrogen Sulfide Drilling Operations Plan and the Public Protection Plan. This plan will be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

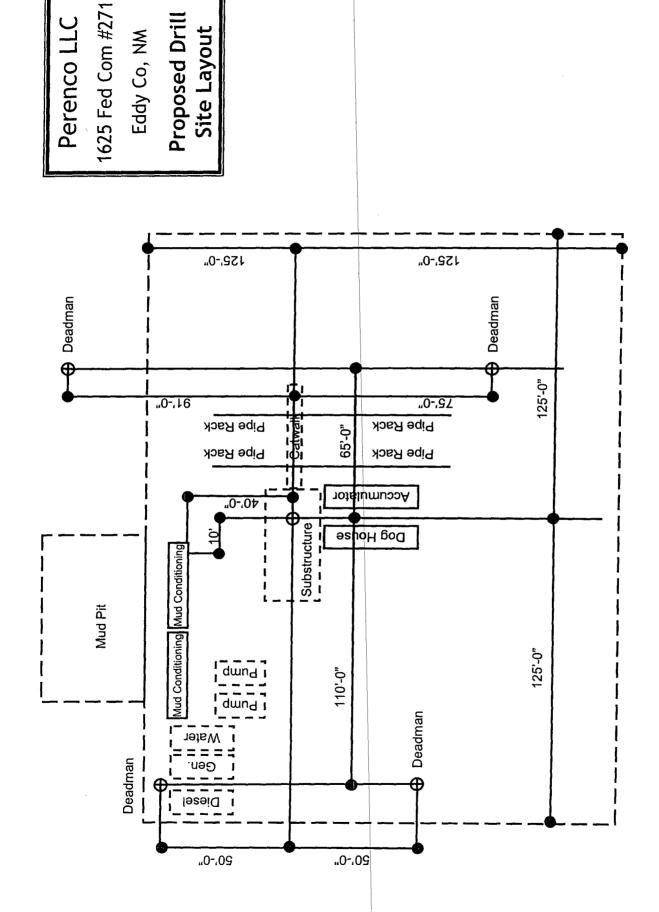
APPLICABILITY:

The provisions of this plan are effective when drilling operations are conducted in areas where zones may be penetrated that are known to contain, or may be reasonably expected to contain, hydrogen sulfide gas in concentrations of 100 parts per million or more.

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ATTACHMENT TO EXHIBIT #1

- 1) Blow out preventer and all fittings must be in good condition, 2000 psi W.P. minimum.
- 2) Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 3000 psi W.P. minimum.
- 3) All choke and fill lines to be securely anchored especially ends of choke lines.
- 4) Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 5) Kelly cock on kelly.
- 6) Extension wrenches and hand wheels to be properly installed.
- 7) Blow out preventer control to be located as close to driller's position as feasible.
- 8) Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

Bryan Arrant (505) 748-1283; FAX 748-9720; emergency 746-4302 State of New Mexico, Oil Conservation District (OCD), Artesia Office

Bryan,

This is to confirm that the FLETC has approved well drilling operations by LCX/Perenco, LLC in the north 828-feet of the northwest corner of Section 27, T16S, R25E, NMPM. This land is owned by the BLM and has been Withdrawn for use by the FLETC pursuant to existing mineral leases. Let me know if you have any questions.

Tom Heath

Chief, Master Plan Construction Branch (505) 748-8141

FLETC 1300 W. Richey Ave. Artesia, NM 88210

LCX ENERGY LLC

+4326872521

110 N. Marlenfeld St., Suite 200 Midland, TX 79701 (432) 687-1575

July 6, 2005

Fed Com 1625 # 271 200' FNL & 700' FWL, D, Sec 27, T-16-S, R-25-E Eddy Co., NM

Attn: Brian Arrant

Brian,

There are no habitable dwellings within 1 mile of this well location at this time.

Please find the attached plat of the fence we built for FLETC to mark their North boundary. Also attached is Tom Heath's last e-mail to me approving the fence after it was completed.

You can e-mail the API # to me at larryg@eeronline.com or fax at 432-687-2521.

Larry Gillette

Larry	Gillette

From:

Heath, Tom [Tom.Heath@dhs.gov]

Sent:

Wednesday, June 22, 2005 2:57 PM

To:

Larry Gillette

Cc:

Furman, Jonathan

Subject: RE: New Mexico Fence

fence looks good... thanks, Tom

From: Larry Gillette [mailto:Larryg@eeronline.com]

Sent: Wednesday, June 22, 2005 10:52 AM

To: Heath, Tom

Subject: New Mexico Fence

Tom,

The fence builders have finished the fence. Please let me know if it passes and is approved. Is there anything else we need to do?

I will be starting my location on July 1st or 5th. The suspension of lease has been approved but their clock starts at the first of each month. So if I started the location today the effective date would be June 1st which means I would have to be drilling by June 30th.

I will keep you updated on what we are doing.

Thanks,

Larry Gillette

This email has been scanned by the MessageLabs Email Security System. For more information please visit http://www.messagelabs.com/email

Have a great day!

PERENCO



RECEIVED

MAY 1 9 2005 OOD-ANT-ERING

May 18, 2005

Oil Conservation Division 1301 W. Grand Ave. Artesia, New Mexico 88210

Attn: Mr. Brian Arant

Re: Directional Drilling Plan 1625 Fed Com #271

T16S, R25E, Section 27: W/2 Eddy County, New Mexico

Dear Mr. Arant,

Reference is made to our recent telephone conversation in which you ask me to provide you a Directional Drilling Plan and a C-102 showing formation penetration, dedicated acreage and project area for our proposed 1625 Fed Com #271 well. Enclosed, please find the requested directional drilling plan. Also note, Joe Janica is forwarding a revised C-102 showing the items you requested.

Should you need anything further, feel free to cal me at 432-688-0949.

Very truly yours,

Perenco, LLC

Frank G. Nix Land Manager

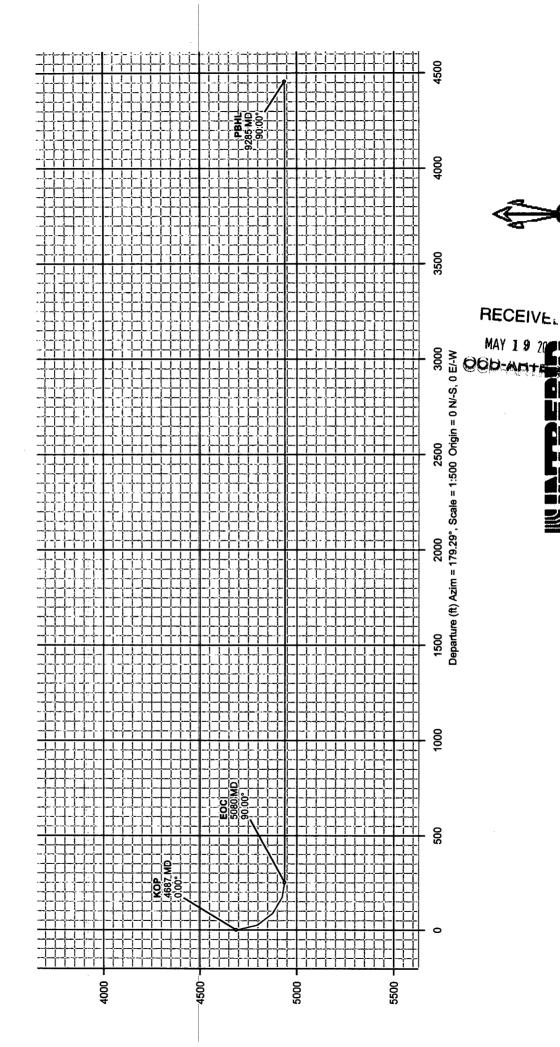
Trans S. A.

Cc: Joe Janica

Perenco LLC 6 Desta Drive, Suite 6800, Midland, Texas 79705 Tel: 915-682-8553 Fax: 915-682-8078

Endeavor Energy

Fed-Com 1625 #27 Eddy County, NM Nad 83 May 17, 2005 49565.8 nT Fed-Com 1625 #27 Pate





Proposal

Report Date: May 17, 2005

Client: Endeavor Energy

Field: Eddy County, NM Nad 83

Structure / Slot: Fed-Com 1625 #271 / Fed-Com 1625 #271

Well: Fed-Com 1625 #271 Borehole: Fed-Com 1625 #271

UWI/API#:

Survey Name / Date: FC 1625-271_r1 / May 17, 2005 Tort / AHD / DDI / ERD ratio: 90.000° / 4455.54 ft / 5.877 / 0.902

Grid Coordinate System: NAD83 New Mexico State Planes, Eastern Zone, US Feet

Location Lat/Long: N 32 54 1.882, W 104 28 46.627
Location Grid N/E Y/X: N 691375.500 ftUS, E 496439.600 ftUS

Grid Convergence Angle: -0.07945964° Grid Scale Factor: 0.99991140 Survey / DLS Computation Method: Minimum Curvature / Lubinski

Vertical Section Azimuth: 179,290°

Vertical Section Origin: N 0.000 ft, E 0.000 ft

TVD Reference Datum: RKB

TVD Reference Elevation: 0.0 ft relative to Sea Bed / Ground Level Elevation: 0.000 ft relative to

Magnetic Declination: 8.765°
Total Field Strength: 49565.754 nT

Magnetic Dip: 60,799°
Declination Date: May 17, 2005
Magnetic Declination Model: IGRF 2005
North Reference: Grid North

Total Corr Mag North -> Grid North: +8.844°
Local Coordinates Referenced To: Well Head

Comments	Measured Depth	Inclination	Azimuth	TVD	Vertical Section	NS	EW	Closure	Closure Azimuth	DLS	Tool Face
	(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	(deg/100 ft)	(deg)
Tie-In	0.00	0.00	179.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	179.29M
KOP	4687.00	0.00	179.29	4687.00	0.00	0.00	0.00	0.00	0.00	0.00	179.29M
	4700.00	2.98	179.29	4699.99	0.34	-0.34	0.00	0.34	179.29	22.92	179.29M
	4800.00	25.90	179.29	4796.19	25.11	-25.10	0.31	25.11	179.29	22.92	0.00G
	4900.00	48.82	179.29	4875.15	85.38	-85.37	1.05	85.38	179.29	22.92	0.00G
	5000.00	71.73	179.29	4924.40	171.64	-171.63	2.12	171.64	179.29	22.92	0.00G
EOC	5079.70	90.00	179.29	4937.00	250.00	-249.98	3.09	250.00	179.29	22.92	0.00G
PBHL	9285.24	90.00	179.29	4937.00	4455.54	-4455.20	55.00	4455.54	179.29	0.00	0.00G

Endeavor Energy

Fed-Com 1625 #271 FED Eddy County, NM Nad 83 FED Fed-Com 1625 #271

TVD Ref: RKB (0.00 ft above) 8rvy Date: Tue 02:67 PM May 17, 2005 << W Scale = 1:750(ft) E >>> 1500 2250 -1500 -750 - 750 750 4687 MD _5080 MD _179.29°az--750 -750 -1500 -1500 -2250 -2250 -3000 -3000 -3750 -3750 -4500 -4500



