OCD-HOBBS

Form 3160-3 (April 2004)	F.0		FORM APPROVED OMB No 1004-0137 Expires March 31, 2007		
UNITED STATI DEPARTMENT OF THE BUREAU OF LAND MA	E INTERIOR	5	Lease Serial No NM-7488		
APPLICATION FOR PERMIT TO		6	If Indian, Allotee	or Tribe Name	
la. Type of work DRILL REEN	VTER	7	7 If Unit of CA Agreement, Name and No		
1b Type of Well Oil Well Gas Well Other	✓ Single Zone	Multiple Zone	Lease Name and W Meyer B Feder		
2 Name of Operator EnerVest Operating, Ltd.	<143	3199)	API Well No. 30 · 025	-38968	
3a Address 1001 Fannin, Suite 800 Houston, Texas 77002-6707	3b Phone No. (mclude area co 713/495-6530	ode) 10	Field and Pool, or E		
4 Location of Well (Report location clearly and in accordance with At surface 1805' FNL AND 680' FWL	any State requirements *) Unif E	11.5	Sec , T R M or Bl	k and Survey or Area	
At proposed prod. zone			Sec 7, T-24S-R		
14 Distance in miles and direction from nearest town or post office* 8 miles north of Jal, New Mexico		12	County or Parish Lea	13 State	
Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig, unit line, if any) 680'	16 No of acres in lease 316.23	17 Spacing Um 320	t dedicated to this w	ell	
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, fit 1145'	19 Proposed Depth 3800'		M/BIA Bond No on file B 001083 8		
21 Elevations (Show whether DF, KDB, RT, GL, etc.) GL 3321'	22 Approximate date work v 07/01/2008	(23 Estimated duration 10 days		
	24 Attachments)	
The following completed in accordance with the requirements of One 1. Well plat certified by a registered surveyor 2. A Drilling Plan 3. A Surface Use Plan (if the location is on National Forest Systems SUPO) shall be filed with the appropriate Forest Service Office)	em Lands, the 4 Bond to 0 Item 20 a	cover the operations unbove) certification ter site specific informat	less covered by an o	Ü	
25 Signature	Name (Printed/Typed) Gary Miller)		Date 04/29/2008	
Title Agent, Enervest Operating, Ltd					
Approved by Signature/s/ James Stovall	Name (Printed/Typed	James Stov	all	Date JUN 0	
Title FIELD MANAGER	Office	AD FIELD OFFICE			
Application approval does not warrant or certify that the applicant be conduct operations thereon. Conditions of approval, if any, are attached	holds legalor equitable title to the			FOR TWO	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations	a crime for any person knowingly s as to any matter within its jurisdic	y and willfully to make t	o any department o	r agency of the Unite	

Approval Subject to General Requirements & Special Stipulations Attached JUN 1 0 2008 HOBBS OC

CONDITIONS OF APPROVAL BY THE OCD

-- Approval for drilling only, CANNOT produce unitl OCD Santa Fe approve Simultaneous Ddication of Acreage and Pool/Formation.



CERTIFIED MAIL, RETURN RECEIPT REQUESTED 7007 0710 0000 5146 5140

March 3, 2008

Deep Wells Ranch Inc. Star Route Combest Ranch Jal, New Mexico 88252

RE:

Notice to Owner of Surface Estate

Section 7, T24S, R37E Lea County, New Mexico

Mys. & B 7. 67 E

Gentlemen:

EnerVest Operating, L.L.C. ("EnerVest") is the current owner of a valid oil and gas lease from the Federal Government covering the captioned section.

This is to provide notice, pursuant to Section 4A of the New Mexico Surface Owners Protection Act, that we will be sending personnel to your lands in order to do one or more of the following: measure, inspect, survey, stake and generally evaluate the site(s) and route(s) for proposed operations that are being considered for the future. The activities by the personnel will not disturb the land.

EnerVest and its contractors and agents will make every effort to not disturb any existing conditions on the land. We will contact you if there is any situation that arises that needs to be discussed.

Once the review of the lands has been completed and the size of the pad, the route of the road to access the wellpad and the route of the flowline has been determined this information will be provided to you along with a Surface Use Agreement ("Agreement") for your review and approval. Upon your review of the Agreement and if you find all upon return the monetary consideration will be provided.

If you should have any questions and would like to visit with me please feel free to contact me at 713-495-6527 at any time.

Francis

Gary L. Gann Senior Landman

ggann@enervest.net

State of New Mexico

DISTRICT I 1625 N. FRENCH DR , 80088S, NW 88240

Energy, Minerals and Natural Resources Department

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 68210

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

UL	ST	RI	CT	IV

WELL LOCATION AND ACREAGE DEDICATION PLAT

Fee Lease - 3 Copies

1220 S ST FRANCIS DR., SANTA PE, NM 87505							
31. 025. 3896	8 19240	Jalmat (T-Y- 7R) Gas					
Property Code 303915		B FEDERAL	Well Number 7				
OGRIB No. 1 43199		rator Name T OPERATING	Elevation 3321'				

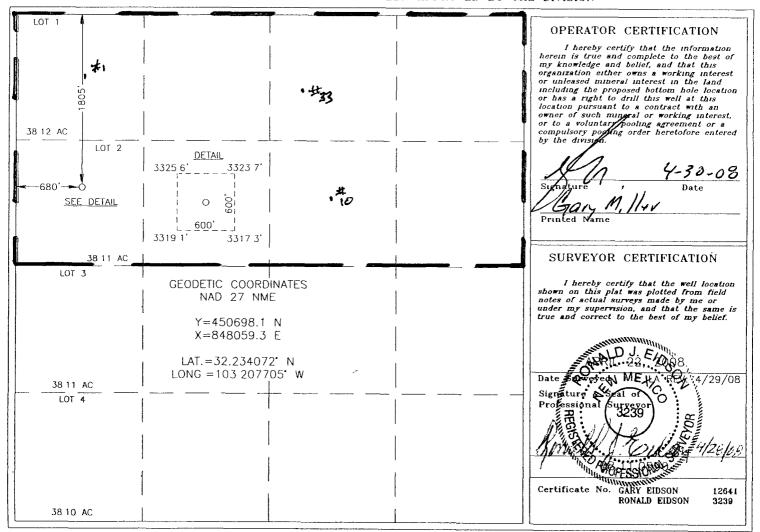
Surface Location

	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	2	7	24-S	37-E		1805	NORTH	680	WEST	LEA

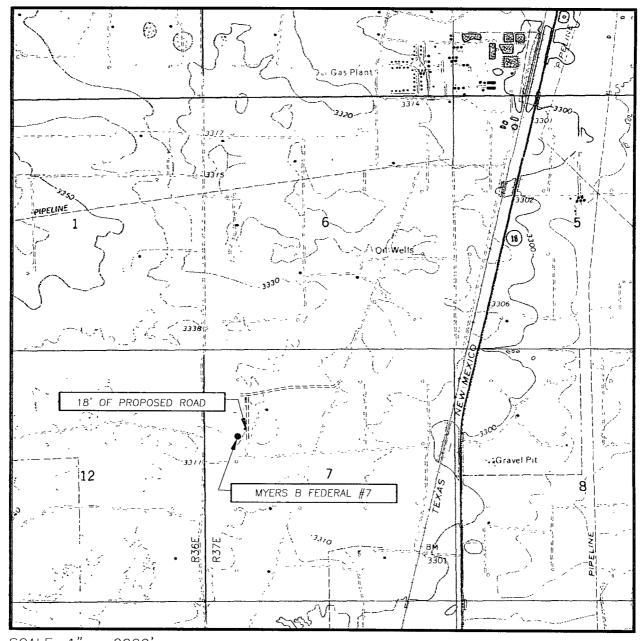
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joseph o	r Infilt Co	nsolidation	Code Or	der 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



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: JAL NW, N.M. - 10'

SEC. 7 TWP. 24-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 1805' FNL & 680' FWL

ELEVATION 3321'

OPERATOR ENERVEST OPERATING

LEASE MYERS B FEDERAL

U.S.G.S. TOPOGRAPHIC MAP

JAL NW, N.M.



PROVIDING SURVEYING SERVICES
SINCE 1946

JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

VICINITY MAP

7	8	9	10	11	12	7	VII.8 5	9	10	μ _{pR}	12	7	
18	17	16	15	14	प्त 3 85 इ.	ਸ 37 18	(C ₂) 17 T	23 S	15	14	13 CE	ස 18	
19	20	E11	22	53	TEAGUE S		20	21	22	23	24	19	
30	29	28	27	26	S 52 R 36 E	37 37	P R 29	28 PR	27 PR	26 PR	25	30	
31	32	33	34 25/	35	DEEPWELL J8	S 31	~ 00/2 32	33	PR\	35	저 36 년 편	ep 31	
6	5	4	3 MYERS B	2 FEDERAL	#7	6	2 2	4	3	5	t (6	
7	8	WHITTE 1000	10	11	12	7	DOEM Z	9	10	°¢ 11	15	7	
18	17	16	GEEPWELLS	۳ 14	13 COOPER	18 CEMETARY	17 COOPER	C 24 S	15	14	13	18	
19	20	21	22	> 23	24	19	JI2 20 FLYINC	E E	55 KV,	CHT 23	24 CE	8g 19	
30	29	28	W 100 M	26	52 % E	8 8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	29 S S	28	27	26	PR 25 DOLLARHIE	E 30 30 30	
31	32	33	347	35 P1	HILLIPS HI	2	32 EL	33 PASEO JI3	34 4	35	36	DOLLARHIDE	
6	5	4	3	5	J10	6 +		4	3 17	2	1	6	
7	8	9	10	11	12	7 B	8 T	25 S	10 LEA COUNT JAL AP	Y	T) is	7	
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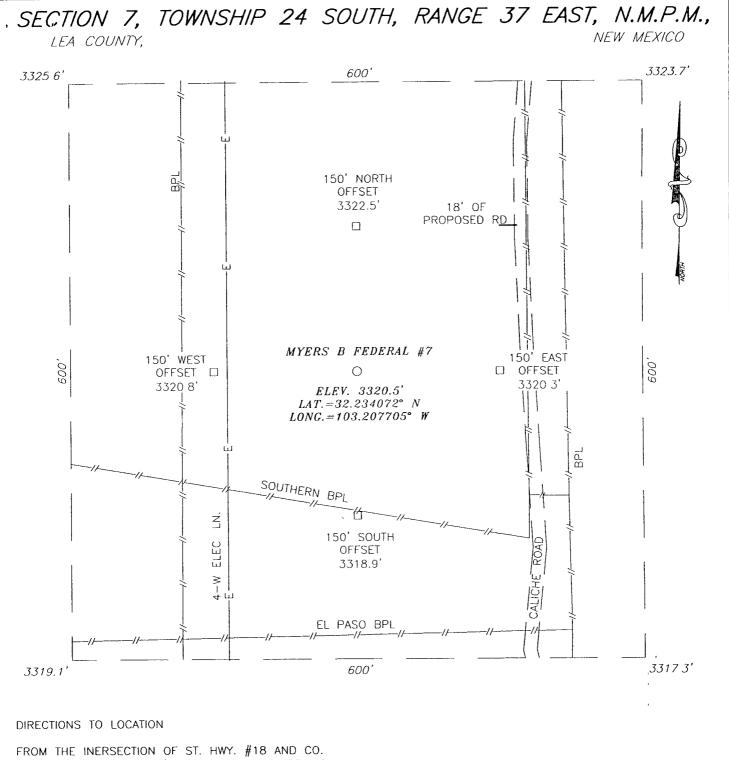
SCALE: 1" = 2 MILES

SEC 7	TWP. 24	<u>-W</u> R(GE. <u>3</u>	7–E	
SURVEY	N	.M P.M	1.		
COUNTY	LEA S	STATE.	NEW	MEXIC	0
DESCRIPTIO	N <u>1805'</u>	FNL	<u>& 68</u>	<u>80' FW</u>	/L
ELEVATION_		332	11'	-	
OPERATOR_	ENERV	EST C)PERA	TING	
LEASE	MYERS	B FE	DERA	L	



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N DAL PASO
HOBBS, N.M. 88240
(505) 393-3117



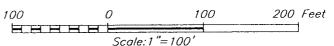


FROM THE INERSECTION OF ST. HWY. #18 AND CO. RD. J8 (DEEP WELLS RD) GO WEST ON CO. RD J8 APPROX. 0.6 MILES. TURN LEFT AND GO SOUTH APPROX. 0.25 MILES. TURN LEFT AND GO EAST APPROX. 0.15 MILES. TURN RIGHT AND GO SOUTH APPROX. 0.9 MILES. TURN RIGHT AND GO WEST APPROX. 0.4 MILES. TURN LEFT AND GO SOUTH APPROX. 0.15 MILES. THIS LOCATION IS APPROX. 175 FEET WEST.



PROVIDING SURVEYING SERVICES SINCE 1946

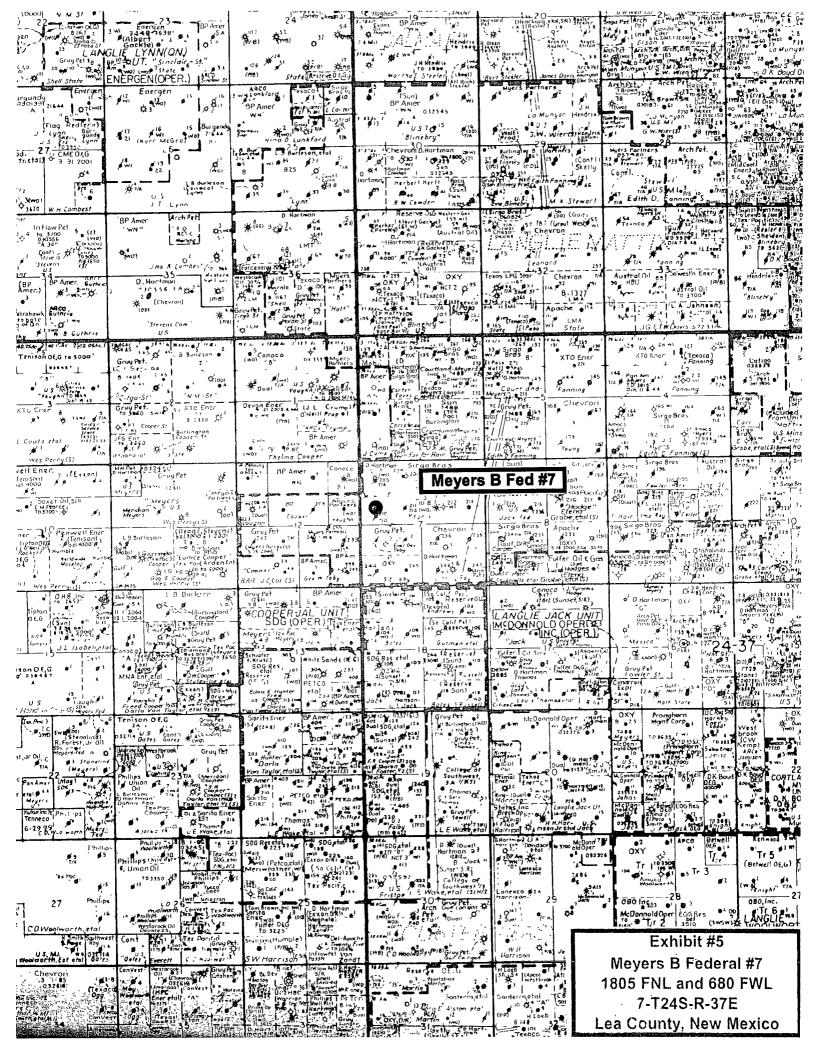
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117



ENERVEST OPERATING

MYERS B FEDERAL #7 WELL
LOCATED 1805 FEET FROM THE NORTH LINE AND
680 FEET FROM THE WEST LINE OF SECTION 7,
TOWNSHIP 24 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

Survey Date: 4/2	22/08	She	eet	1	of	1	Sheets
W.O. Number: 08.1	1.0590 Di	r By.	· LA		R	ev 1:	4/29/08
Date: 4/28/08			0811	0590)	Scale	e:1"=100'





EnerVest Operating, Ltd. Drilling Plan Jalmat Area

Rig Telephone #: Rig FAX #:

1,805' FNL & 680' FWL SEC 7 T24S R37E Lea County, NM GL = 3,320

MYERS B FED 7 - DRILLING PROGRAM

1 Geologic Name of Surface Formation & Directions to Well

Quaternary

Directions to well:

2 Estimated Tops of Important Geologic Markers

MD	MD SS F		Objective	Rock Type
		-		_
2,720	600	Tansill	Primary	(Dolomite & Anhydrite)
2,880	440	Yates	Primary	(Sandstone-&-Dolomite)
3,110	210	Seven Rivers	Primary	(Sandstone & Dolomite)
3,475	-155	Queen	Primary	(Anhydrite, SS & Dolomite)
3,520	-200	Penrose	Primary	(Lower Queen)
		Grayburg		(Dolomitic SS)

3 Estimated Depths of Anticipated Fresh Water, Oil and Gas

MD	SS	Formation	Objective	Fluid Type:
2,720	600	Tansill	Primary	(Oil/Gas)
2,880	440	Yates	Primary	(Oil/Gas)
3,110	210	Seven Rivers	Primary	(Oil/Gas)
3,475	-155	Queen	Primary	(Oil/Gas)
3,520	-200	Penrose	Primary	(Oil/Gas)
	The second second	Grayburg		(Oil/Gas)

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Setting 8-5/8" casing to 1,250' and circulating cement back to the surface will protect the surface fresh water sand. All zones containing commercial quantities of oil or gas will have cement circulated across them by cementing the 4-1/2" production casing back to at least the 8-5/8" casing shoe. Cement volumes will be pumped to provide cement back to surface.



EnerVest Operating, Ltd.
Drilling Plan
Jalmat Area

Rig Telephone #: Rig FAX #:

1,805' FNL & 680' FWL SEC 7 T24S R37E

Lea County, NM

GL = 3,320

4 Casing Program

Hole Size	Interval	OD Casing	Weight	Grade	Conn./New?	Bur/Col/Tens
12-1/4"	0-1,250'	8-5/8"	24#	J-55	STC/New	2.00 / 2.40 / 1.94
7-7/8"	0-3,800'	4-1/2"	11.60#	J-55	LTC/New	1 16 / 2 50 / 1.86

5 Cement Program

8-5/8" Surface Casing

LEAD 415 SX, 35/65/6, C/Poz/Gel, 1.90 cf/sk, 12.8 PPG

100% XS

TAIL 195 SX, Class "C", 1.35 cf/sk, 14 8 PPG

4-1/2" Production Csg

LEAD 350 SKS 50:50 POZ·C (11 8 PPG 2.56 CF/SK)

TAIL 300 SKS CLASS "C" (14 8 PPG 1 33 CF/SK)

6 Minimum Specifications for Pressure Control & Wellhead Equipment

The blowout preventer equipment (BOPE) shown in Exhibit #9 will consist of a double ram-type (2,000 psi WP) preventer. This unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on bottom and 4-1/2" drill pipe rams on top. The BOPE will be nippled up on the 8-5/8" surface casing and tested to 2,000 psi by a third party. 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. Other accessories to the BOP equipment (Exhibit #10) will include a kelly cock and floor safety valve, choke lines and a choke manifold (Exhibit #11) and will have a 2,000 psi WP rating.

A 2,000 psi WP Larkin Type Wellhead will be used.

7 Types and Characteristics of the Proposed Mud System

The surface hole will be drilled with a fresh water mud. The production hole will be drilled with saturated brine water.

DEPTH	TYPE	WEIGHT	VISCOSITY	WATER LOSS
0-1,250'	FW Mud	8.7	28	N.C.
1,250'-TD	Brine	10	30	12 cc



EnerVest Operating, Ltd.
Drilling Plan
Jalmat Area
1.805' FNL & 680' FWI

Rig Telephone #: Rig FAX #:

1,805' FNL & 680' FWL SEC 7 T24S R37E

Lea County, NM

GL = 3,320

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

8 Auxillary Well Control and Monitoring Equipment

- A. Kelly cock will be kept in the drill string at all times.
- **B.** A full opening drill pipe-stabbing valve with proper drill pipe connections will be on the rig floor at all times.

9 Logging, Testing and Coring Program

- A. The electric logging program will consist of a GR-Dual Laterolog Litho Density log run from TD to the surface casing shoe.
- B. A GR-Neutron will be run to surface.
- C. No mud logger will be used.
- D. No conventional coring is anticipated. Further testing procedures will be determined after the 4-1/2" production casing has been cemented at TD, based on drill shows and log evaluation.

10 Abnormal conditions, Pressure, Temperatures and Potential Hazards

No abnormal pressures or temperatures are anticipated. The estimated bottom hole at TD is 97°F and the estimated maximum bottom hole pressure is 1,700 psi. Lost returns have been experienced in offset wells. Losses have occurred below 2,700'.

11 Anticipated Starting Date and Duration of Operations

Road and location work will not begin until approval has been received. Anticipated Start Date is July 28, 2008.

Once commenced, drilling operations should be finished in approximately 12 days. If the well is productive, an additional 30 days will be required for completion and testing before a decision is made to install permanent facilities.

Surface Use Plan EnerVest Operating, Ltd. Myer B Fed #7 1805' FNL & 680' FWL Section 7, T-24-S, R-37-E Lea County, New Mexico



13. Bond Coverage:

Bond Coverage is Nationwide Bond # RLB 0010838

1 cm Page ce 4/4/08

Lessee's and Operator's Representative:

The EnerVest Operating, Ltd. representative responsible for assuring compliance with the surface use plan is as follows:

Harvey Barney, Drilling Manger EnerVest Operating, Ltd. 1001 Fannin St. Suite 800 Houston, TX 77002 Phone (713) 495-6522 (office) (713) 203-9322 (cell)

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or EnerVest Operating, Ltd, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 29th day of April, 2008.

Signed:

Printed Name: Harvey Barney

Position: Drilling Manger

Address: 1001 Fannin St. Suite 800, Houston, TX 77002

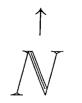
Telephone: (713) 495-6522

Field Representative (if not above signatory): Not yet determined

E-mail: hbarney@enervest.net

Surface Use Plan Page 5

wėll iv	lyers E	3 Fed 7	7 ENERVEST							
	ERTICAL		RIG TBD				DATE		4/25/20	08
	JALMAT		COUNTY LEA COUNTY, NE		W ME	XICO	ELEVATION		3,320	
			мир	NOVA			CEMENT		RISING S	TAR
			SEC 7 T24S R37E				SBHT		99° F	
COMMENTS OF	BJECTIVE I	FORMATION	QUEEN SANDSTONE & I	DOLOMITE						
NOTE										
	SURVEYS	WOB/GPM	FORMATION	VERTICAL		MUD	OPEN HOLE	CEMENT	WELLHEAD	REMARKS
LOGGER		BIT	DEPTHS	DEPTH	T 1 T	WEIGHT	LOGS			
			14" CONDUCTOR	40'						
	.INATIONS)' & 1,250'		12-1/4" HOLE		8.5 - 8.8 PPG NATIVE					
		60' PEND 2 - 8" DCs	RED BEDS			LEAD: 415 Sks 35.65 6 POZ.C.GEL (1 90 Yld, 12 8 PP TAIL: 195 Sks Class "C" 2% CaCl2 (1 35Yld, 14 8 PF				
			8-5/8" 24# J55 STC	1,250'			(100 % Excess) FLOAT COLLAR & TEXAS PATTERN SHOE JT: IF NEEDED			
INCLINATION	is .			-	_					
EVERY 500' OR AS NEED!	ED	10K/350 SEC FMH3 15K/350 PACKED	7-7/8" HOLE 655ZM			9 8 - 10.1 PPG BRINE				
NO MUD LOG	GER									
		20K/350		2.000'						
		22K/350		2,400'	<	ADD STA	ARCH FOR 1	5 - 20 CC 1	WL	
			PRIMARY OBJECTIVES							
POS LR - DEF	PLETION		TANSILL (DOLO / ANHYD)	> 2,720	<	POS LOS	ST RETURNS	S 2,700' - :	3,600'	
		25K/350	YATES (SS/DOLO)	> 2,880		TD TO S	OLE LOGS. C: GR/LITH	10 DENSIT	ΓΥ / DUAL LA	TEROLOG
		SEVEN RIVERS (SS / DOLO)		> 3,110	<	TD TO SURFACE. GR / NEUTRON < POSSIBLE LOST RETURNS				
		QUE	EN (ANHYD/SS/DOLO)	> 3,475		LEAD:	350 SKS 50:50 POZ.C (11 8 PPG 2.56 CF/SK) 300 SKS CLASS "C" (14.8 PPG 1.33 CF/SK) (20% EXCESS OVER CALIPER) CEMENT TO SURFACE			56 CE/SK)
		PE	NROSE (LOWER QUEEN)	> 3,520		TAIL:				3 CF/SK)
			4-1/2 11.60# J55 LTC	3,800'	_	FLOAT SHOE, 1 JT, FLOAT COLLAR				
	000 :						OFFICE		HOME	
		REGULATORY		RONNIE YOUNG			(713) 495-6	3530		
·				ELROY ARDOIN			(713) 495-6	5534 (337)654-199	92
PI# 30-0	025-	GEOLOGIST		ROGER TREJO			(713) 495-5		281) 265-59	



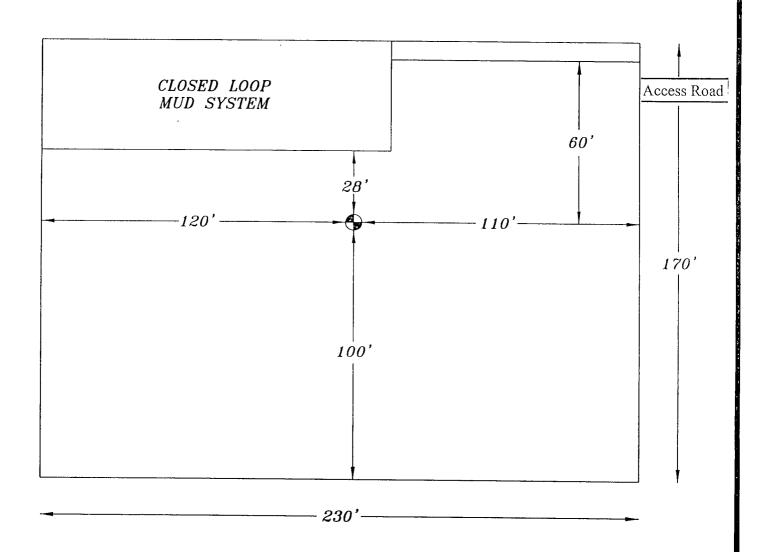


EXHIBIT #6

ENERVEST OPERATING, LTD.

RIG LAYOUT

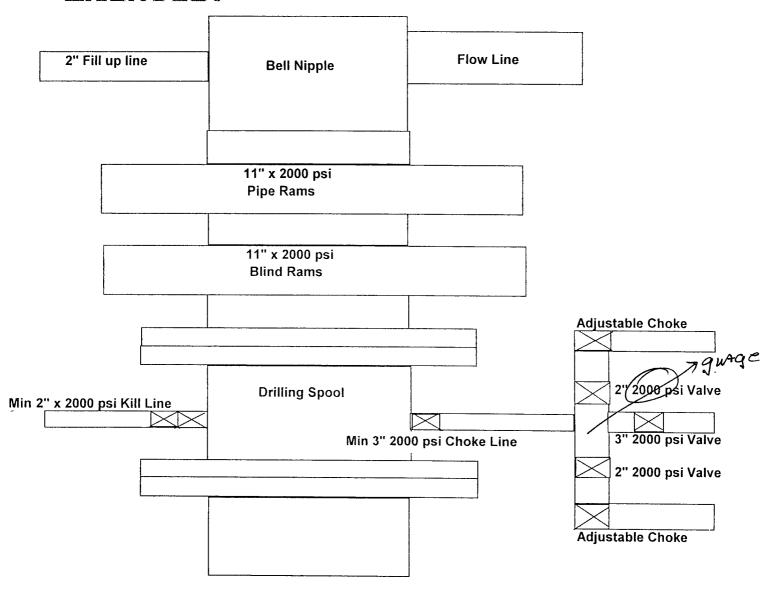
RIG LAYOUT

NOT TO SCALE



BOP DIAGRAM LEA COUNTY, NEW MEXICO

ENERVEST



PECOS DISTRICT CONDITIONS OF APPROVAL

	OPERATOR'S NAME:	EnerVest Operating Ltd.		
	LEASE NO.:	NM-7488		
	WELL NAME & NO.:	7-Meyer B Federal		
	SURFACE HOLE FOOTAGE:	1805' FNL & 680' FWL		
	BOTTOM HOLE FOOTAGE	'F L & 'F L		
	LOCATION:	Section 7, T. 24 S., R 37 E., NMPM		
Ś	COUNTY:	Lea County, New Mexico		3. 🙀 🐮
	25 () ()		an aft of	प्रश्ने भूत क्षेत्रके हेन्द्री तथा स्थापना क्षेत्रके केंद्री स्थापना क्षेत्रके केंद्री
:				inani Lagrania
	TAI	BLE OF CONTENTS		
Ě		A) apply to this APD. If any deviations to the	se standards	s exist or
=	special COAs are required, the sec	tion with the deviation or requirement will be	checked be	low.
	and the second s			
7	General Provisions	and the control of the second	The state of the s	
-	Permit Expiration	آئي.		rant m
	Archaeology, Paleontology, a	and Historical Sites	:	
	Noxious Weeds	- *		
	Special Requirements		-	177
	Lesser Prairie Chicken			T
-	Construction -	1.	- 1 - 2 -	West Strain
	Notification	-	** * * *5***	e the demand of the terminal
	Topsoil		•	-
	Reserve Pit			
	Federal Mineral Material I	Pits		
	Well Pads			
	Roads			
	Road Section Diagram			
	□ Drilling			
	☐ Production (Post Drilling)			
	Reserve Pit Closure/Interim	Reclamation		
	Final Abandonment/Reclams	ation		

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Hobbs Field Station at (505) 393-3612 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

There is no measurable soil on this well pad to stockpile is required.

C. -RESERVE PITS

The operator has applied for a closed-loop system. The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (505) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

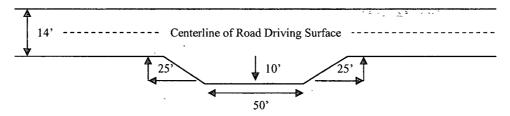
Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

Standard Turnout - Plan View

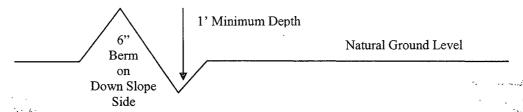


Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

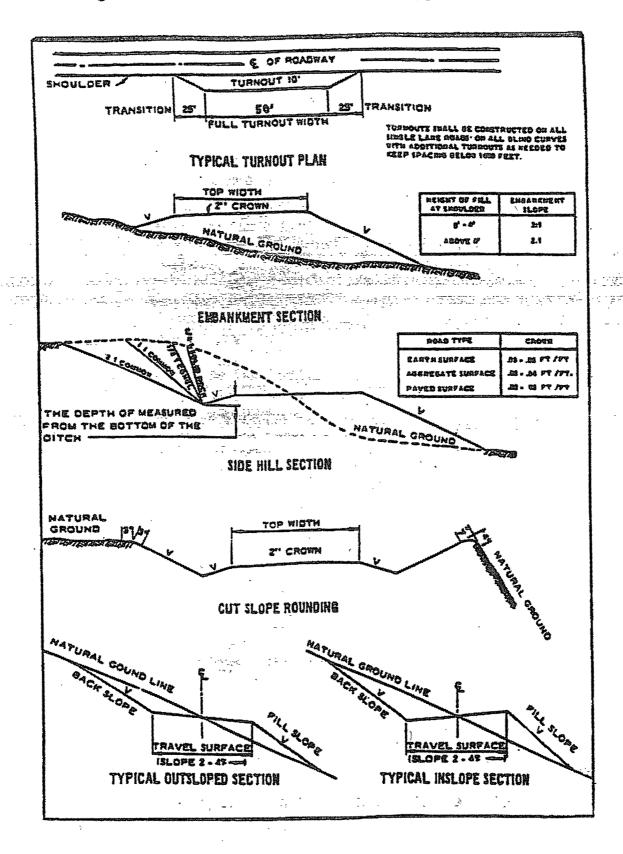
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Figure 1 – Cross Sections and Plans For Typical Road Sections



VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of **4 hours** in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOP/BOPE tests
 - Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. A Hydrogen Sulfide (H2S) Drilling Plan should be activated 500 feet prior to drilling into the <u>Yates</u> Formation. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.
 - 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work.

Centralizers required on surface casing as per Onshore Order 2.III.B.1.f

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer:

Possible lost circulation in Yates Formation

Surface Use Plan EnerVest Operating, Ltd. Myer B Fed #7 1805' FNL & 680' FWL Section 7, T-24-S, R-37-E Lea County, New Mexico



Exhibits:

Exhibit #1 Wellsite and Elevation Plat

Form C-102 Well location and acreage dedication plat

Exhibit #2 Topographic Map (West)

Exhibit #3 Vicinity Map and area roads

Exhibit #4 Elevation Plat (West)

Exhibit #5 Ownership map showing well location and other wells in the

area.

Exhibit #6 Pad Layout and orientation

Exhibit #7 BOP and Choke diagrams

Exhibit #10 Form C-144 NMOCD pit permit application

Surface Use Plan

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

IX. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

Seed Mixture 1, for Loamy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection bye the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
Plains lovegrass (Eragrostis intermedia)	- 0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bouteloua curtipendula)	5.0

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent gemination = pounds pure live seed

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.

- 340 - 12 TATA BANKA 4, 12 1

- 1. The <u>8-5/8</u> inch surface casing shall be set <u>at approximately 1250 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt)</u> and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement).
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the <u>4-1/2</u> inch production casing is:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 3. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. The appropriate BLM office shall be notified a minimum of **4 hours** in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.

- c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

LB ... 6/02/08