OCD-HOBBS

Form 3160-3 (April 2004)				OMB	APPROVE No. 1004-013 March 31, 2	7
UNITED STATES DEPARTMENT OF THE		_		5. Lease Serial No.		
BUREAU OF LAND MAN				NMLC-07054		
APPLICATION FOR PERMIT TO	6. If Indian, Allote	e or Tribe	Name			
Ia. Type of work: DRILL REENT	ER			7 If Unit or CA Ag	reement, Na	ame and No.
lb. Type of Well:	√s	ingle Zone 🔲 Multi	ple Zone	8. Lease Name and Bell Lake Un		30856
2. Name of Operator Devon Energy Production Company, L	.P	(613	カ	9. API Well No. 30-029	- 38	032
3a. Address 20 North Broadway Oklahoma City, Oklahoma City 73102-8260		 (include area code) 52-8198 	·/	10. Find and Pool or Delaware	Explorator	y y
4. Location of Well (Report location clearly and in accordance with an At surface 1980' FSL & 660' FEL	ty State requirer	nents.*)		11. Sec., T. R. M. or 1	Blk. and Su	rvey or Area
At proposed prod. zone	I.	it I		Sec 31, T228	R34E	
14. Distance in miles and direction from nearest town or post office* Approximately 20 miles west of Jal, NM	•			12. County or Parish		13. State
15. Distance from proposed*	16 No. of :	acres in lease	17 Spacin	Lea County	well	NM
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	314.45		40 ac	-	well	
 Distance from proposed location* to nearest well, drilling, completed, 	19. Propose	d Depth	20. BLM/	BIA Bond No. on file		
applied for, on this lease, ft.	8600' M	D				
 Elevations (Show whether DF, KDB, RT, GL, etc.) 3442' GL 	22. Approxi	mate date work will star 06/01/2006	1 rt*	23. Estimated duration 32 days)n.	
	24. Atta	chments 🔗	mBan (Controlled Wat	ner Benins	
The following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, shall be a	ttached to th	a conversion of the second second second second		<u></u>
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover the ltem 20 above).	he operation	ns unless covered by an	existing b	ond on file (see
3. A Surface Use Plan (if the location is on National Forest System	Lands, the	5. Operator certific	ation			
SUPO shall be filed with the appropriate Forest Service Office).		6. Such other site authorized offic	specific info	ormation and/or plans a	s may be re	quired by the
25. Signature	Name	(Printed/Typed)			Date	
frilling		Norvella Adams			03/0	7/2006
Sr. Staff Eng. Tech						
Approved by (Signature) /s/ Tony J. Herrell	Name	(Printed/Typed) /s/ Top	ny J. H	Ierrell	Date JUL	2 6 2006
FIELD MANAGER		UAHLS	BAD	FIELD OF	FICE	
Application approval does not warrant or certify that the applicant holds onduct operations thereon. Conditions of approval, if any, are attached.	legal or equit	able title to those right	s in the subj	AL FOR 1	ntitle the ap	pplicant to
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a critates any false, fictitious or fraudulent statements or representations as to	me for any pe o any matter w	rson knowinghy and w				

*(Instructions on page 2)

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Witness Surface Casing

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

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Additional Operator Remarks:

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Devon Energy Production Company, LP proposes to drill to approximately 8,600' to test the Delaware for commercial quantities of oil. If deemed non-commercial, the wellbore will be plugged and abandoned as per Federal regulations. Programs to adhere to onshore oil and gas regulations are outlined in the following exhibits and attachments.

Approximately 1369' of new access road will need to be constructed.

Characterization Control 1993			
BUREAU OF LAND MANAGEEMENT BUREAU OF LAND MANAGEEMENT BUREAU OF LAND MANAGEEMENT SUNDATY NOTICES AND REPORTS ON WELLS C. Leases Serain M. R. Leases Serain M	DRM APROVED B NO. 1004-0135		
Check of the second set o	EXPIRES: NOVEMBER 30, 2000		
Location of well Use horm 3190-2 (APU) for such proposals SUBMIT IN TRIPLICATE SUBMIT IN TRIPLICATE T. Unit or CA Agre To the of Operator SUBMIT IN TRIPLICATE T. Unit or CA Agre To the of Operator SUBMIT IN TRIPLICATE T. Unit or CA Agre To the of Operator Submit Breadway, Sta 1500, Oklahoma City, OK 73102 Other Submit Breadway, Sta 1500, Oklahoma City, OK 73102 Other Breadway, Sta 1500, Oklahoma City,			
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Signed Name Norvella Adams This space for Federal or State Office use) /s/ Tony J. Herrell FIELD MANAGERJI			
SignedNameNorvella AdamsDate			
Signed Name Norvella Adams Title Sr. Staff Eng. Tech Date (This space for Federal or State Office use) /s/ Tony J. Herrell FIELD MANAGER			
Signed Name Norvella Adams Title Sr. Staff Eng. Tech Date /s/ Tony J. Herrell FIELD MANAGER			
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Signed Name Norvella Adams Title Sr. Staff Eng. Tech Date (This space for Federal or State Office use) /s/ Tony J. Herrell FIELD MANAGER			
This space for Federal or State Office use) /s/ Tony J. Herrell Approved by	24-Jul-06		
	JL 2 6 2006		

*See Instruction on Reverse Side

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OCD-HOBBS



Devon Energy Corporation 20 North Broadway Oklahoma City, Oklahoma 73102-8260

Hydrogen Sulfide (H₂S) Contingency Plan

For

Bell Lake Unit # 23

Sec-31, T-22S R-34E 1980' FSL & 660' FEL,

Lea County NM

Accepted for Record Purposes. Format Approval Subject to Onsite Inspection Date: 6.19-05 Common BLM



11:1 W 18.1 网 200



Bell Lake Unit # 23

This is an open drilling site. H_2S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H_2S , including warning signs, wind indicators and H_2S monitor.



Assumed 100 ppm 1201: 3000? (Condition of this plan.

Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated South on lease road to Delaware Basin Road. Crews should then move to block access to the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. <u>There are no homes or buildings in the ROE</u>.

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Emergency Procedures

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In the case of a release of gas containing H_2S , the first responder(s) must isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally the first responder(s) must evacuate any public places encompassed by the 100 ppm ROE. First responder(s) must take care not to injure themselves during this operation. Company and/or local officials must be contacted to aid in this operation. Evacuation of the public should be beyond the 100 ppm ROE.

All responders must have training in the detection of H_2S , measures for protection against the gas, equipment used for protection and emergency response. Additionally, responders must be equipped with H_2S monitors and air packs in order to control the release. Use the "buddy system" to ensure no injuries during the response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentr- ation
Hydrogen Sulfide	H₂S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Characteristics of H₂S and SO₂

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Devon Energy Corp. Company Call List

Artesia (505)	Cellular	Office	Home
Foreman – Roger Hernandez			
Joe Johnston	513-0630	748-0171	627-6917
Mike Myers Engineer – Bill Greenlees	(505) 513-0782. (405) 203-7778.	(505) 748-0177 . (405) 552-8194 .	(505) 395-3020 (405) 324-9994

Agency Call List

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Eddy	Hobbs	
<u>County</u>	State Police	
<u>(505)</u>	City Police	
	Sheriff's Office	
	Ambulance	
	Fire Department	
	LEPC (Local Emergency Planning Committee)	
	NMOCD	
	US Bureau of Land Management	

Carlsbad

State Police	
City Police	
Sheriff's Office	
Ambulance	
Fire Department	
LEPC (Local Emergency Planning Committee)	887-3798
US Bureau of Land Management	887-6544
New Mexico Emergency Response Commission (Santa Fe)) (505)476-9600
24 HR	(505) 827-9126
National Emergency Response Center (Washington, DC)	(800) 424-8802

Emergency Services

	Boots & Coots IWC Cudd Pressure Control Halliburton B. J. Services	(915) 699-0139 or (915) 563-3356 (505) 746-2757
Give GPS position:	Flight For Life - Lubbock, TX Aerocare - Lubbock, TX Med Flight Air Amb - Albuquerque, NM Lifeguard Air Med Svc. Albuquerque, NM	(806) 747-8923 (505) 842-4433

Prepared in conjunction with Wade Rohloff of;



DISTRICT I 1825 N. Preach Dr., Hobbs, NM 88240 DISTRICT II 811 South First, Artesia, NM 68210

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DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505 Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	Number	20		Pool C	ode			Vildcat	Pool Name		
SI - ULS Property	<u>- 380</u> Code	122		-		Property		laware		Well Ni	
30856		Property Name BELL LAKE UNIT					23				
OGRID N		[Operator Name					Eleva			
6137			DEV	ON I	ENEF	RGY PRO	DUC	TION CO., L.F	.	344	2'
						Surface	Loca	tion			
UL or lot No.	Section	Township	Range	Lot 1	ldn	Feet from t	the	North/South line	Feet from the	East/West line	County
	31	22 S	34 E			1980		SOUTH	660	EAST	LEA
		I <u></u>	Bottom	Hole	Loc	ation If D	Differ	ent From Sur	lace		I
UL or lot No.	Section	Township	Range	Lot 1		Feet from t		North/South line	Feet from the	East/West line	County
Dedicated Acres	s Joint of	r Infill Co	onsolidation	Code	Ord	er No.				· · · · · · · · · · · · · · · · · · ·	
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	+			<u> </u>			+-		Norvella	Adams	
							ļ		Printed Name		
									Sr. Staf	f Eng. Tech	L.,
	I						I		Title February	27 2006	[]
	i								Date	27 2000	
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LOT 2 - 37.	.38 AC.	<u> </u>					$\frac{1}{1}$		URVEYOF	R CERTIFICAT	ION
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	l l		,	Lat –	N32*	20'46.8'		Q − 660'→		that the same is best of my belief.	
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	I I						344	5.5' 3437.3'	DECEMI	BER 12, 2005	<u> </u>
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BELL LAKE UNIT #23 Located at 1980' FSL AND 660' FEL Section 31, Township 22 South, Range 34 East, N.M.P.M., Lea County, New Mexico.

				and the second
	NAME OF		W.O. Number: 6055AA - KJG CD#4	
		1120 N. West County Rd.		DEVON ENEROY
		Hobbs, New Mexico 88241	Survey Date: 12-12-2005	DEVON ENERGY
1		(505) 393-7316 - Office	generation of the second s	
Ì		(eee) eee vote onnee	Scole: 1" = 2000'	PROD. CO., L.P.
-		(505) 392-3074 - Fax		
Contract, Contra	tocused on excellence			
	in the cilfield	basinsurveys.com	Dote: 12-13-2005	
3		CONTRACTOR AND AND AN ADDRESS AND ADDRESS AND ADDRESS ADDR	27 17	



DRILLING PROGRAM

Devon Energy Production Company, LP BELL LAKE UNIT 23 1980' FSL & 660' FEL, Section 31 T22S, R34E Lea County, New Mexico

1. Geologic Name of Surface Formation

a. Permian

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2. Estimated Tops of Important Geologic Markers

a.	Rustler	1825'
b.	Delaware	5240'
c.	Bone Spring	8475

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting the 13 3/8" casing at 1850' and circulating cement back to surface.

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas

The estimated depths at which water, oil and gas will be encountered are as follows.

Water	None expected in area
Oil	Delaware and Bone Spring
Gas	Upper Morrow

4. Casing Program

Hole Size	Interval	OD Csg	Weight	Collar	Grade
26"	0 - 830'	20"	94#	BTC	J55
17 ¹ ⁄2"	0-1850'	13 3/8"	54.5#	ST&C	J55
12 ¼"	0-5235'	9 5/8"	40#	LT&C	J55 & N80
8 ³ /4"	0-8600'	5 1/2"	17#	LT&C	N80

5. Cement & Setting Depth:

20"	Conductor	Cement Lead - 1100 sx (35:65) Poz Class C, ¹ / ₄ #/sx Celloflake, 6% Bentonite, 2% CaCl ₂ ; tail with 400 sx Class C, ¹ / ₄ #/sx Celloflake, TOC - surface.
13 3/8"	Surface	Cement Lead - 866 sx (35:65) Poz Class C, 5% NaCl, ¼ #/sx Celloflake, 6% Bentonite; Tail with 300 sx Class C, ¼ #/sx Celloflake. TOC – surface.
9 5/8"	Intermediate	Cement Stage 1: Lead – 440 sx (50:50) Poz Class C, 5% NaCl, 0.5% ASA-301, ¼ #/sx Celloflake, 10% Bentonite, 0.006 gps FP-13L, tail

		with 250 sx (60:40) Poz Class C, 5% NaCl, ¼ #/sx Celloflake, 4% MPA-1, 0.3% Sodium Metasilicate, DV Tool at 3100'. Stage 2: Lead - 513 sx (50:50) Poz Class C, 0.5% ASA-301, 5% NaCl, ¼ #/sx Celloflake, 10% Bentonite, 0.006 gps FP-13L, tail with 200s (60:40) Poz Class C, 5% NaCl, ¼ #/sx Celloflake, 0.3% Sodium Metasilciate. TOC – surface.
5 1/2"	Production	Cement Stage 1: 985 sx (60:40) Poz Class C, 1% NaCl, 0.5% BA-10, 1/4 #/sx Celloflake, 2pps Kol Seal, 4% MPA-1, 0.2% R-3, DV Tool at 6000'. Stage 2: 375 sx (60:40) Poz Class C, 0.5% BA-10, 5% NaCl, 1/4 #/sx Celloflake, 4% MPA-1, 2pps Kol Seal. TOC to be 500' inside of the 9 5/8" casing.

The above cement volumes could be revised pending caliper measurement from the open hole logs.

5. Pressure Control Equipment:

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The blowout preventor equipment (BOP) shown in Exhibit # B (A) will consist of a (5M system) double ram type (5000 psi WP) preventor and a bag-type (Hydril) preventor (3000 psi WP). Both units will be hydraulically operated and the ram type preventor will be equipped with blind rams on top and 4 $\frac{1}{2}$ " drill pipe rams on bottom. Both BOP's will be installed on the 13 3/8" surface casing and utilized continuously until total depth is reached. All BOP's and associated equipment will be tested to 1200 psi with the rig pump before drilling out the 13 3/8" casing shoe (70% of 54.5, J-55 casing). Prior to drilling out the 9 5/8" casing shoe, the BOP's and Hydril will be tested as per BLM Drilling Operations Order #2.

Pipe rams will be operated and check each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drillers log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having 5000 psi WP rating.

6. **Proposed Mud Circulation System:**

DEPTH	MUD WT.	VISC	FLUID LOSS	TYPE MUD
0'-830'	8.5 - 9.4	35-45	NC	Fresh
830' - 1850'	8.5-9	30-40	NC	Fresh
1850-5235'	10	29-35	NC	Brine
5235-8600'	8.4-9.1	29-35	NC to 15	Fresh / Polymer

The necessary mud products for weight addition and fluid loss control will be on location at all times.

7. Auxiliary Well Control and Monitoring Equipment

- a. A kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection equipment will be in operations after drilling out the 13 3/8" casing shoe until the 9 5/8" casing is cemented. Breathing equipment will be on location upon drilling the 13 3/8" shoe until total depth is reached.

8. Logging, Testing and Coring Program

- a. Drill stem tests may be run on potential pay interval.
- b. The open hole electrical logging program will be:
 - i. Total Depth to Intermediate Casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron Z Density log with Gamma Ray and Caliper.
 - ii. Total Depth to Surface Compensated Neutron with Gamma Ray
 - iii. No coring program is planned
 - iv. Additional testing will be initiated subsequent to setting the 5 1/2" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

9. Potential Hazards

No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 3750 psi and Estimated BHT 130°.

10. Anticipated Starting Date and Duration of Operations

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 32 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.

Well name: Operator: N/A String type: Conductor

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Bell Lake 23

Design parameters: <u>Collapse</u> Mud weight:	0.500 ppg	Minimum design <u>Collapse:</u>		Environment: H2S considered? No
Design is based on evacu	9.500 ppg ated pipe.	Design factor	1.125	Surface temperature: 75 °F Bottom hole temperature: 87 °F Temperature gradient: 1.40 °F/100ft Minimum section length: 1,000 ft
		Burst:		Minimum occuon lengal. 1,000 h
		Design factor	1.00	
Burst		-		
Max anticipated surface				
pressure:	310 psi			
Internal gradient:	0.120 psi/ft	Tension:		Non-directional string.
Calculated BHP	410 psi	8 Round STC:	1.80 (J)	-
		8 Round LTC:	1.80 (J)	
No backup mud specified.		Buttress:	1.60 (J)	
		Premium:	1.50 (J)	
		Body yield:	1.60 (B)	
		Tension is based on) air weight.	
		Neutral point:	713 ft	

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (Ibs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	830	20	94.00	5455	Buttress	830	830	18.999	21490
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design
1	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(kips)	(kips)	Factor
	410	520	1.27	410	1530	3.74	78	1041	13.34 J

Devon Energy

Date: February 27,2006 Oklahoma City, Oklahoma

Collapse is based on a vertical depth of 830 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Remarks:

Well name: Operator: N/A String type: Surface

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Bell Lake 23

Desig Collap	n paramet se	ers:		Minimur Collapse	n design fa	ictors:	Environm H2S consid		No
	l weight: ign is based	l on evacua	10.000 ppg ated pipe.	Design fa		1.125	Surface ten Bottom hole Temperatur	nperature: e temperature re gradient:	1.40 °F/100ft
				Burst:			Minimum se	ection length: rift:	830 ft 2.250 in
Burst				Design fa	ctor	1.00			2.200 11
	anticipated	surface							
р	ressure:		1,955 psi						
	nal gradient		0.120 psi/ft	Tension:			Non-direction	onal string.	
Calc	ulated BHP		2,177 psi	8 Round S 8 Round L		1.80 (J)			
No b	ackup mud	specified.		Buttress:	.10.	1.80 (J) 1.60 (J)			
				Premium:		1.50 (J)			
				Body yield	i :	1.60 (B)		uent strings:	
				Tension is	based on ai	r weight		tting depth: Id weight:	5,235 ft
				Neutral po	oint:	1,576 ft		ting BHP:	9.500 ppg 2,584 psi
							Fracture	e mud wt:	19.250 ppg
							Fracture		5,235 ft
							njection	pressure	5,235 psi
Run	Segment	······································	Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length	Size	Weight	Grade	Finish	Depth	Depth	Diameter	Cost
1	(ft) 1850	(in) 13.375	(lbs/ft) 54.50	1.55	0710	(ft)	(ft)	(in)	(\$)
	1000	10.070	54.50	J-55	ST&C	1850	1850	12.49	22955
Run	Collapse	Collapse		Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength		Load	Strength	Design	Load	Strength	Design
1	(psi) 961	(psi) 1130	Factor 1.18	(psi) 2177	(psi) 2730	Factor 1.25	(kips) 100.8	(kips) 514	Factor 5.10 J

Devon Energy

Date: February 27,2006 Oklahoma City, Oklahoma

Remarks:

Collapse is based on a vertical depth of 1850 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name: Operator: N/A String type: Intermediate

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Bell Lake 23

<u>Collap</u> Muc	n paramet <u>se</u> I weight: ign is based		10.000 ppg ited pipe.	Minimur <u>Collapse</u> Design fa		ctors: 1.125	Temperatur	ered? perature: temperature	1.40 °F/100ft
	anticipated			<u>Burst:</u> Design fa	ctor	1.00	Minimum D		8.750 in
Inter Calc	ressure: mal gradient culated BHP packup mud	:	3,436 psi 0.120 psi/ft 4,064 psi	Tension: 8 Round S 8 Round I Buttress: Premium:	TC:	1.80 (J) 1.80 (J) 1.60 (J) 1.50 (J)	Non-directic	onal string.	
				Body yield	t:	1.60 (B)		uent strings:	
				Tension is Neutral po	s based on air bint:	weight. 4,456 ft	Next mu Next set	ting depth: d weight: ting BHP: mud wt: depth:	8,600 ft 10.000 ppg 4,468 psi 19.250 ppg 5,235 ft
				Estimated	cost: 5	2,015 (\$)		pressure	5,235 psi
Run Seq	Segment Length (ft) 4000	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
2 1	1235	9.625 9.625	40.00 40.00	J-55 N-80	LT&C LT&C	4000	4000	8.75	36300
•	1200	0.020	40.00	11-00	LIQU	5235	5235	8.75	15715
Run Seq 2 1	Collapse Load (psi) 2078 2719	Collapse Strength (psi) 2510 3090	Collapse Design Factor 1.21 1.14	Burst Load (psi) 3916 4064	Burst Strength (psi) 3950 5750	Burst Design Factor 1.01 1.41	Tension Load (kips) 209.4 49.4	Tension Strength (kips) 520 737	Tension Design Factor 2.48 J 14.92 J

Devon Energy

Date: February 27,2006 Oklahoma City, Oklahoma

Remarks:

Collapse is based on a vertical depth of 5235 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name: N/A Operator: String type: Production

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Bell Lake 23

Design parameters: <u>Collapse</u> Mud weight: Design is based on evacu	10.000 ppg lated pipe.	Minimum design <u>Collapse:</u> Design factor	factors: 1.125	Environment: H2S considered? Surface temperature: Bottom hole temperature: Temperature gradient:	No 75 °F 195 °F 1.40 °F/100ft
		Burst:		Minimum section length:	830 ft
		Design factor	1.00		
Burst		-			
Max anticipated surface					
pressure:	3,435 psi				
Internal gradient:	0.120 psi/ft	Tension:		Non-directional string.	
Calculated BHP	4,467 psi	8 Round STC:	1.80 (J)	en e	
		8 Round LTC:	1.80 (J)		
No backup mud specified.		Buttress:	1.60 (J)		
		Premium:	1.50 (J)		
		Body yield:	1.60 (B)		
		Tension is based on	air weight.		
		Neutral point:	7,296 ft		

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (Ibs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	8600	5.5	17.00	N-80	LT&C	8600	8600	4.767	48472
Run Seq 1	Collapse Load (psi) 4467	Collapse Strength (psi) 6290	Collapse Design Factor 1.41	Burst Load (psi) 4467	Burst Strength (psi) 7740	Burst Design Factor 1.73	Tension Load (kips) 146.2	Tension Strength (kips) 348	Tension Design Factor 2.38 J

Devon Energy

Date: February 27,2006 Oklahoma City, Oklahoma

Remarks: Collapse is based on a vertical depth of 8600 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.



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CONDITIONS OF APPROVAL - DRILLING

Operator's Name:	Devon Energy P	roduction Co	mpany	
Well Name & No:				
Location: Surface: Lease: NMLC 070	1980' EXL &	660' F X L,	Sec. 31, T. 32 S.,	R. 34 E.
Lease: NMLC 070)544-B ⁵	E	22	BA
Lea County, New	Mexico			4

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Roswell Field Office, 2909 West Second St., Roswell, NM 88201, (505) 627-0272 for wells in Chaves and Roosevelt Counties; the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

A. Spudding

B. Cementing casing: 20 inch; 13% inch; 9% inch, 5 1/2 inch

C. BOP Tests

2. A Hydrogen Sulfide (H2S) Drilling Plan is not required for this wellbore.

3. 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.

4. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.

5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

II. CASING:

1. The <u>20</u> inch shall be set at <u>1400 Feet</u> with cement circulated to the surface or use Lea County Conditions of Approval (attached) to a depth of 1371 ft. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.

2. The minimum required fill of cement behind the 13 ³/₆ inch 1st Intermediate casing is to circulate to surface.

3. The minimum required fill of cement behind the 9 1/2 inch 2nd Intermediate casing is to circulate to surface.

4. The <u>minimum required fill to cement</u> behind the <u>5 ½</u> inch Production casing is to <u>Tie Back to the 9 % inch shoe by at</u> least 200 feet.

III. PRESSURE CONTROL:

1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 13% inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

2. <u>Minimum working pressure</u> of the blowout preventer and related equipment (BOPE) shall be <u>2 M</u> psi. for surface hole drilling conditions down to a depth of 5235 ft. <u>A variance to test the BOPE installed on the 13 % with the rig pumps to 1211 psig</u> for 30 minutes is approved. The 3M BOPE system shall be tested as a 3M BOPE as per Onshore Order # 02 prior to drilling below the 9 % inch shoe.

3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the test.

-The test shall be done by an independent service company

-The results of the test shall be reported to the appropriate BLM office.

-Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures.

-Use of drilling mud for testing is not permitted since it can mask small leaks.

-Testing must be done in safe workman-like manner. Hard line connections shall be required.

-Both low pressure and high pressure testing of BOPE is required.

G Gourley 3/24/06 RFO

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		tate of New Mexico inerals and Natural Resources	Form C-144 June 1, 2004
 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 	1220	Conservation Division) South St. Francis Dr. anta Fe, NM 87505	For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office
	Below-Gra	ade Tank Registration or (k covered by a "general plan"? Yes	
Type of action: R	egistration of a pit	or below-grade tank 🛛 Closure of a pit or	below-grade tank
Operator: _Devon Energy Production Company, LP Address: _PO Box 250 Artesia NM 88211 Facility or well name: _Bell Lake Unit 23AP County: _Lea Surface Owner: Federal ⊠ State □ Private □ Indian	1#: <u>30-025</u> Latitude_N3	5-38032 U/L or Qtr/Qtr_I	R34E
Pit Type: Drilling ⊠ Production □ Disposal □ Workover □ Emergency □ Lined ⊠ Unlined □ Liner type: Synthetic ⊠ Thickness 12_mil Pit Volume bbl		Below-grade tank Volume: bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes	
Depth to ground water (vertical distance from bottom of high water elevation of ground water.)	of pit to seasonal	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)
Wellhead protection area: (Less than 200 feet from a p water source, or less than 1000 feet from all other wate		Yes No	(20 points) (0 points)
Distance to surface water: (horizontal distance to all w irrigation canals, ditches, and perennial and ephemeral		Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)
		Ranking Score (Total Points)	0 Points
this is a pit closure: (1) Attach a diagram of the facil	ity showing the pit'	s relationship to other equipment and tanks	(2) Indicate disposal location: (check the onsite hox if
our are burying in place) onsite \Box offsite \Box If offsite emediation start date and end date. (4) Groundwater en	e, name of facility_ countered: No □	. (3) Attach : Yes I If yes, show depth below ground su	a general description of remedial action taken including
emediation start date and end date. (4) Groundwater end 5) Attach soil sample results and a diagram of sample lo	e, name of facility_ countered: No □	. (3) Attach : Yes I If yes, show depth below ground su	a general description of remedial action taken including $rfaceft$ and attach sample results.
Your are burying in place) onsite offsite for fight for the start date and end date. (4) Groundwater end (5) Attach soil sample results and a diagram of sample lo Additional Comments:	e, name of facility_ countered: No \ \ beations and excava	(3) Attach a	a general description of remedial action taken including rfaceft. and attach sample results.
Four are burying in place) onsite offsite If offsite emediation start date and end date. (4) Groundwater end (5) Attach soil sample results and a diagram of sample loce. Additional Comments: I hereby certify that the information above is true and chas been/will be constructed or closed according to Date:3/21/06 Printed Name/Title Norvella Adams / Sr. Staff Engineer.	e, name of facility_ countered: No ' ' peations and excava complete to the best NMOCD guideline ering Technician_ ation/closure does r		a general description of remedial action taken including rfaceft. and attach sample results.