1 .1	\sim	N. M.	OIL CONS. COMMISS	~			
Form 3160-3		P. O.	BOX 1980 BOX	LICATE	• FORM APPR	OVED	
(July 1992)	IINIT	FD STATESOBS	S, NEW MEXICOse	uctions on	OMB NO. 10	04-0136	
	DEPARTMENT	OF THE INTE	RIOR Origina	88240	Expires: Februar		
				THPU	5. LEASE DESIGNATION A	ND SEBIAL NO.	
	BUREAU OF	LAND MANAGEME	NI CAPTOURI	1476	NM 60052		
APP	LICATION FOR PI	ERMIT TO DRIL	L OR DEEPEN		6. IF INDIAN, ALLOTTER	OR TRIBE NAME	
1a. TYPE OF WORK	hange of p	DEEPEN	bottom hole & RE-ENTER	ocation	7. UNIT AGREEMENT NA	MB	
b. TYPE OF WELL OIL	GAS []	8					
WELL X	WELL OTHER	2			8. FARM OR LEASE NAME WELL Mescalero Fed		
SDX Resourc					9. API WELL NO.		
3. ADDRESS AND TELEPHONE N					30-005-21052		
PO Box 5061	, Midland TX 797 (Report location clearly and	704	94+4		10. FIELD AND POOL, OR	WILDCAT	
At surface	(neport location clearly and	in accordance with any	State requirements.*)		Graham Spring		
1980' FNL &	1980' FWL				11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. 2					Unit F		
1480' FNL &	1846' FWL 8 AND DIRECTION FROM NEAR	BOR BOWN OR DOGS AND			Sec 11, T12S, R30E		
		LET TOWN OR POST OFFIC			12. COUNTY OR PARISH	13. STATE	
28 miles NE	of Dexter, NM		O. OF ACRES IN LEASE	1.1.7	Chaves	NM	
LOCATION TO NEAR PROPERTY OR LEASE	LST	1480'	O. OF ACRES IN LEASE		OF ACRES ASSIGNED His Well		
(Also to nearest d 18. DISTANCE FROM PR	rlg. unit line, if any)	(160')	640		40		
TO NEAREST WELL, OR APPLIED FOR, ON 1	DRILLING, COMPLETED, 990	' Surfalod 19. P	ROPOSED DEPTH	20. ROTAL	RY OR CABLE TOOLS		
	whether DF, RT, GR, etc.)	' Btm Loc	10,202'	Rot	ary		
4003' GL	Mether DF, AI, GR, etc.)				22. APPROX. DATE WORK	E WILL START*	
23.	· · · · · · · · · · · · · · · · · · ·		·····		July 15, 199	6	
	1	PROPOSED CASING AN	D CEMENTING PROGRA	AM			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT	·	
16"	NA 13-3/8"	48#	429'	350_s			
12-1/4"	K-55, 9-5/8"		4300'				
-3/4-7-7/8"	N80&K55, 5-1/2	17#	10100'	500 s			
			1 10100	500 S			
t is proposed	to re-enter this	well, See at	tached procedur	e.	an a	4	
					#******	<i>e</i> .	
Attachme	—		•		•		
			Directional Dat		\sim		
		e & Operations	Plan on file &	approve	ed 1-12-96.		
	H2S Plan				•••••••*******************************		
	BOP Sketch						
*Culp Ranch #1	l is permanently	abandoned in t	he Devonian & i	s being	held		
for possible	salt water dispo	sal well.		.o Derng	пета		
ABOVE SPACE DESCRI	BE PROPOSED PROGRAM: If p	roposal is to deepen, give data	on present productive zone	and proposed	new productive zone. If prop	osal is to drill or	
t.	tinent data on subsurface locations		ai ucpuis. Give blowout preve	mer program, i	tany.		
	ln.		nuck Morgan	APPRO	WED		
SIGNED	A Maga		ngineer pE	TPR w Z	TIPOTE May 23	3, 1996	
(This space for Fed	eral or State office use)			<u> </u>	DESIER		
¢	·			JUN 6	1000		
PERMIT NO.		······································	APPROVAL DATE		1050		
Application approval does	not warrant or certify that the appli AL, IF ANY: SUBJEOT, TO L	icant holds legal or equitable til	le to those rights in the subject	lease which wo	uld entitle the applicant to condu	act operations thereon	
CONDITIONS OF APPROVA			ROSW ROSW	ELL RESOI	MANAGEMENT JRCE AREA		
	APPROVAL BY	STATE needed	log location		ACE AREA		
					·		
APPROVED BY		TITLE			_ DATE		

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*See Instructions On Reverse Side _

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the total of the matter within its invisidiction.

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088				State of New Mexico Energy, Münerals & Natural Resources Department OIL CONSERVATION DIVISION Submit to PO Box 2088 Santa Fe, NM 87504-2088							li ppropr Stat Fe	Form C-102 February 21, 1994 Instructions on back trate District Office e Lease - 4 Copies e Lease - 3 Copies	
•••					~ ~ ~						L		ENDED REPORT
 _	API Numi		VEL				AND A	<u>CI</u>	REAGE DEDI		ATION PLAT		
30-005					² Pool Code			³ Pool Name					
⁴ Property	-	<u></u>			28410 'P			Graham Springs, Devonian					
18291			Me	scale	ero I	Teder							Well Number
'OGRID	No.						⁴ Oper	ntor	Name			<u>.</u>	C-1 Elevation
020451			SD	X Res	sourc	ces,	Inc.					4003' GL	
							¹⁰ Surfa	ce	Location		J		
UL or lot no.	Section	Townsh	ip R	lange	Lot Ic	do 1	Feet from th	e	North/South line	Feet from the	East/West	line	County
F	11	12S	-	30E			1980		North	1980	West	<u> </u>	Chaves
UL or lot no.	Section	I T		DOll	_				f Different Fro				
F		Townshi		ange	Lot Ic	ia F	Feet from the	¢,	North/South line	Feet from the	East/West	liae	County
¹² Dedicated Acre	11 Joint	or Infill	_	30E	Code	15 Orde	1480		North	1846	West		Chaves
40						0100							
NO ALLOW	ABLE	WILL BI	E ASS	IGNEI	о то	THIS (COMPLE	TIC	ON UNTIL ALL	NTERESTS H	AVE REE	NCO	NEOL ID ATED
		OR	A NO	N-STA	NDA	RDU	NIT HAS	BE	EN APPROVED	BY THE DIVI	SION		SOLIDATED
16			\uparrow		Τ			Ţ	······································	¹⁷ OPER	ATOR	CERI	IFICATION
										I hereby certi	fy that the infi	mation	contained herein is
			980							true and com	olete io the be	st of my	knowledge and belief
			5										
									C P I M				
				- BHL					- Chuck Moya				
			9		I					Chuck	Morgan	/	
		,	5							Printed Name			
(1980'			-) 0		1					Engin	eer		
								May 23, 1996					
									Date				
										¹⁸ SURV	EYOR C	ERT	IFICATION
										I hereby certify	that the well	location	shown on this play
					1					me or under m	y supervision.	and that	surveys made by the same is true
										and correct to	the best of my	belief.	
										Date of Survey		<u> </u>	·····
					· · · · · ·	╉─		Signature and S		tional Su	rveyer:		
										Certificate Nun	iber		

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SDX RESOURCES, INC. Mescalero Federal #1 1980' FNL & 1980' FWL Sec. 11, T12S, R30E Chaves Co., NM

- <u>Casing</u> 13-3/8" 48#/ft @ 429', cemented w/350 sxs, circ. 9-5/8" 36#/ft @ 4300', cemented w/2113 sxs, circ. 8-3/4" hole to 10,259'
- <u>Plugs</u> 85 sxs Cl H @ 7670'-7470' 105 sxs Cl H @ 4375 -4225' 45 sxs Cl H @ 1675'-1575' 45 sxs Cl H @ 833'- 733' 20 sxs Cl H @ 50'- 0'

PROCEDURE

- Dig out old cellar & remove marker. Strip out 13-3/8" stub. Weld 9-5/8" 36# stub onto 9-5/8" casing. Weld on flange. Back fill if necessary.
- Repair location & dig pits. Line reserve pit (and working pits if not steel).
- 3) MIRU rig. Drill out cement plugs w/8-3/4" bit & 10# brine to 9450'. Set cement plug Cl H 9450'-9250' and dress off top of plug to good hard cement. Drill to KOP of 9350'.
- 4) TIH w/steering assembly and motors w/7-7/8" bit. Kick off N 81 deg W following horizontal plan. Drilling fluid will be salt water gel w/3%-5% oil.
- 5) RU mud logger at 9350'.
- 6) T.D. well in top 5' of Devonian and run open hole logs. Run Halliburton DST tool and test zone.

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7) Run 5-1/2" casing to T.D. and cement to 8000'.

CM/jdc 5/01/96

MESFED.SDX

SUPPLEMENTAL DRILLING DATA

SDX RESOURCES, INC. MESCALERO FEDERAL #1 UNIT F, SECTION 11, T12S, R30E CHAVES COUNTY, NEW MEXICO

- 1. SURFACE FORMATION: Quaternary
- 2. ESTIMATED TOPS OF GEOLOGICAL MARKERS:

Yates	1556	Canyon	8520
San Andres	2840	Strawn	8922
Glorieta	4098	Atoka	9250
Tubb	5600	Mississippian	9580
Abo Shale	6450	Woodford	10235
Wolfcamp	7595	Siluro/Dev	10260
Cisco	8188		

3. ANTICIPATED HYDROCARBON BEARING ZONES:

Devonian 10260'

4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	FROM	\underline{TO}	<u>WEIGHT</u>	<u>GRADE</u>	JOINT
5-1/2"	0 2500 7500	2500 7500 10300	17# 17# 17#	N-80 K-55	LT&C LT&C
	1200	10200	L/#	N-80	LT&C

Equivalent or adequate grade and weights of casing may be substituted at time casing is run, depending on availability.

5-1/2" casing will be cemented with 500 sacks Class H containing 0.8% fluid loss additive, 0.03% dispersant and 0.3% free water control. Cement designed for a top of 8000'. It is possible a stage tool may be run based on shows. If required, it will be positioned to best suit hole conditions.

Cement volumes and additives on all strings may be modified based on hole conditions.

5. PRESSURE CONTROL EQUIPMENT:

Blowout equipment while drilling below the 9-5/8" casing seat will be a 3000 psi working pressure BOP stack. A BOP sketch is attached.

Mescalero Fed #1 Supplemental Drlg Page 2

6. CIRCULATING MEDIUM:

0' to 4300': Drill out from under surface with fresh water adding brine for makeup. Viscosity of 32-34 to clean hole.

4300' to 6400': Drill out from under intermediate with fresh water with a viscosity of 28-30. Add brine water below 5000'.

7. AUXILIARY EQUIPMENT:

A mug logging trailer will be in use when drilling below 9000'.

8. TESTING, LOGGING AND CORING PROGRAMS:

Drill stem tests will be made when well data indicates a test is warranted.

Electric logs will include CNL-FDC-GR and DLL-GR.

No coring is planned.

9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE GAS:

None anticipated. Based on other offset wells, bottomhole pressure at TD is expected to be 4000 psi with a bottomhole temperature of 170 degrees.

The BLM was contacted regarding H2S occurrences. None have been encountered in this area.

10. ANTICIPATED STARTING DATE:

Drilling operations should begin within 30 days after approval of this application. Drilling and completion operations should be completed within 60 days after spudding.



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PRESENT DATE 5-9-88 WELL DATA SHEET ۱ Well No. State New Mexico Chaves <u>Mescalero</u> Federal County Location 1980' FNL & 1980' FWL, Sec. 11, T-12-S, R-30-E (F) 3-22-86 Date Plugged All zones non-Formation(s) commercial. K.B. Elev. <u>4022'</u> G.L. Elev. <u>4003'</u> The primary objective was the Devonian. . G.1., Flev. 4003' D.F. Elev. 4021' Cut 13-3/8" & 9-5/8" cag off 4' below GL. Weld plate on 13-3/8" & install marker._{N.A.} <u>13 3/8</u> Thid. <u>ST&C</u> Set <u>429</u> 151 3-22-86 Set Cmt Plugs Set as Follows: (1) Set 85 sx "H" cmt plug from 350 (2) Set 105 BX "H" cmt plug from 7670' - 7470' w/ Hole Size 16" 4375' - 4225'. Found top w/wire Cement circulated. 44 Tested csg to 600# line at 4231' (3) Set 45 sx "II" cmt plug from Held O.K. 1675' - 1575' (4) Set 45 sx "H" plug from (5) Set 20 sx "H" plug from 50' - 0' (3) 9-5/8 " 36 Gr. K-55 Thd.LT6C Set Q 4300 w/ 2113 1 Sks. Nole Size 12-1/4W Cement circulated. DST Results
DIDESIGNATED - DEVONITAN - CRAYES COUNTY, NEN HEXION - 1.0000001 AFT MUMBERR 30.003-21032
1 T HESCALERO 11 NO. 1 OXIO TUL OF SECTION 11. CRAYES COUNTAN INCENTION 1960 THL & 1960 THL OF SECTION 11. CRAYES R-307. TOT 10.554 PETES NA RMIT ARG. ELEXY NA RATE SPEEN AUXILIAR COUNTAN INCENTION 1960 THL & 1960 THL OF SECTION 11. CRAYES R-307. THL 10.554 PETES NA RMIT ARG. ELEXY NA RATE SPEEN AUXILIAR COUNTAN INTE WINK NOMES AND 13 Its 13-3/8 Sections 10. CRAYES Commuted and 13 Its 13-3/8 Sections 10. CRAYES AUXILIAR CRAEMED AND AND CRAYES TO 4/42 BEL. Returns to winter CREEMED AND AND CRAYES TO 4/42 BEL. Returns to winter CREEMED AND AND CRAYES TO 4/42 BEL. Returns to winter CREEMED AND CRAYES TO 4256 -2700. Return 03 Its 9-570. 300'. So do tem 4/761-785 from 4296'-2700'. Return 03 Its 9-570. 300'. So do tem 4/761-785 from 4296'-2700'. Return 03 Its 9-570. 307. Add tem 4/761-785 from 4296'-2700'. Return 03 Its 9-570. 307. Add tem 4/761-785 from 4296'-2700'. Returns to So CRI 1996 th 1872 in Tingent 1.4511-6R-CAL tree 10.4327. 307. So do tem 4/761. STO AND AND Its 15.37 PBI during FRI Increased to 69.45 PBI during the Autom 10.222'-10.530'. 307. Add the 472 in Tingent 1.4511-6R-CAL tree 10.4327. 307. Add the 49.762 in Tingent 1.4511 File Receiver 46.500 AND CRAYES 307. Add the 49.762 in Tingent 1.4511 File Receiver 46.500 AND CRAYES 307. Add the 49.457 FRI 11141 2.471 ADD ALC C. OIL 370. 307. Add the 49.457 FRI 11141 2.471 ADD ALC C. OIL 370. 304. Add Off AD at RAF'. THLI FIJE RECEIVER 46.500 AND CRAYES 3154. Add Off AD at RAF'. THLI FIJE RECEIVER 46.500 AND CRAYES 3154. Add Off AD at RAF'. THLI FIJE RECEIVER 46.500 AND CRAYES 3154. Add Off AD at RAF'. THLI FIJE RECEIVER 46.500 AND CRAYES 3154. Add Off AD at RAF'. THLI FIJE RECEIVER 46.500 ADD ALC CRAYES 3154. Add Off AD at RAF'. THLI FIJE RECEIVER 46.500 ADD ALC CRAYES 3154. Add Off AD at RAF'. THLI FIJE RECEIVER 46.500 ADD ALC CRAYES 3154. Add Off AD at RAF'. THLI FIJE RECEIVER 46.500 ADD ALC CRAYES 3154. Add Off AD a Tested csg to 1040# DST Results Held O.K. (τ) Top of Devonian 10,259' Well P6A. Did not run prod. csg. Finel Report Nole Size 8-3/4"

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HYDROGEN SULFIDE DRILLING OPERATIONS PLAN SDX RESOURCES, INC. MESCALERO FEDERAL #1 1980' FNL & 1980 FWL UNIT F, SEC. 11, T12S, R30E CHAVES COUNTY, NEW MEXICO

I. <u>Hydrogen Sulfide Training</u>

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards and characteristics of hydrogen sulfide (H2S).
- 2. The proper use and maintenance of personal protective equipment and life support system.
- 3. The proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H2S 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 H2S Drilling Operations Plan and the Public Protection Plan.

H2SPLAN.FRM

MESCALERO FED. #1 - H2S PLAN PAGE 2

There will be an initial safety session just prior to commencing operations on the well. The initial session shall include a review of the site's specific H2S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

II. <u>H2S SAFETY EQUIPMENT AND SYSTEMS</u>

Note: All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet.

- 1. Well Control Equipment:
 - A. Annular Preventer to accommodate all pipe sizes with properly sized closing unit.
- 2. Protective equipment for essential personnel:
 - A. Mark II Surviveair 30-minute units located in the dog house.
- 3. H2S detection and monitoring equipment:
 - A. 1 portable H2S monitor positioned on location for best coverage and response.
 - B. Mud logging trailer shall have H2S monitoring equipment.
- 4. Visual warning systems:
 - A. Guy lines will be flagged and a wind sock will be positioned on location.
 - B. Caution/Danger signs shall be posted on roads providing direct access to location.

MESCALERO FED. #1 - H2S PLAN PAGE 3

5. Mud program:

The mud program has been designed to minimize the volume of H2S circulated to the surface. Proper mud weight, safe drilling practices, will minimize hazards when penetrating H2S bearing zones.

6. Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service as necessary.

7. Communication:

Radio communications in company vehicles including cellular telephone and 2-way radio.

8. Well Testing:

No DST's are planned.







BOP STACK

3000 PSI WORKING PRESSURE

BOP ARRANGEMENT