District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004

Oil Conservation Division 1220 South St. Francis Dr.

RECEIVED it to appropriate District Office

JUN 0 3 2005 ☐ AMENDED REPORT

1220 S. St. Francis Dr., Santa Fe, NM 87505 Sant						Fe, N	M 875	05	OD-AHT	UUJ		
A PPI	LICAT	ION FO	R PERMIT	TO DRE	I.J., RE-1	ENTI	cr. Dr	EPEN.	PLUGBA		OR AD	D A ZONE
741.1.1	CICHI	101110	Operator Name	and Address		J1 V A A	JIKG IVI	222 131 1	LUGDA		GRID Number	
Echo Pr	oducti	on, In	c. PO Box	k 1210,	Graham,	TX	76450)	30 - 0	13	API Number	Sα
					⁵ Property 1	Name				T		l No.
31	136p1		Stilett	to '16'	State					<u> </u>		2
Cemetar	y - Mc		Proposed Pool 1	746	40				¹⁰ Prop	osed F	Pool 2	
				7	Surface	Locat	ion					
UL or lot no. M	Section 16	Township 20S	Range 25E	Lot Idn	Feet fro		North/Sc	wth line uth	Feet from the 725	i	st/Westline est	County Eddy
			⁸ Propo	sed Bottom	Hole Locat	ion If I	Differen	t From St	rrface	•		
UL or lot no.	Section	Township	Range	Lot Idn	Feet fro		North/Sc		Feet from the	Ea	st/West line	County
	I,	I		Addit	ional We	ll Info	ormatic	n	· · · · ·	<u> </u>		······································
	Type Code		¹² Well Type Co		13 Cable			14 L	tease Type Code		15 Grou	nd Level Elevation
N			Gas		rotar			Sta				3496
no M	fultiple		¹⁷ Proposed Dep 9850		Morro]		J&W		7/1/	o Spud Date 05
Depth to Grou	ındwater	100	<u> </u>	Distance from	m nearest fresl	h water v	vell 10	00±	Distance from	n near	est surface wa	ter 1000±
Pit: Liner:	Synthetic	<u> 12 mi</u>	ls thick Clay	Pit Volume:	1280@bls		Drillin	g Method:	•			
	d-Loop Sys	tem 🗆					Fresh W	ater X B	rine XX Diesel/O	il-base	ed Gas/A	ir 🗆
			21	Proposed	Casing a	nd Ce	ement I	rogram	1			
Hole S	lize	Cas	ing Size	Casing we			Setting De		Sacks of Ce	ment		Estimated TOC
17 ½"		13 3/		48	, , , , , , , , , , , , , , , , , , , ,	360			±425			rface
11"		8 5/8	et .	32		140			±875			rface
7 7/8"		4 ½"		11.6		985	50		±1700		รบ	rface
	_			,								
												`
			this application is am, if any. Use a				the data of	n the preser	nt productive zone	and p	proposed new	productive zone.
	-		•		-			66:				
									cient to productiv			
									productiv te Regula			II MIII
prug;	,			u	2 001151	5 0011		ocu	ce Regula	CIO		
A mud p	rogram	and H	0 contin	gency p	lan are	att	ached	. •				
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						1						
			- · · · · · · · · · · · · · · · · · · ·				Λ					
			given above is tr			//		OIL CO	NSERVAT	OI	N DIVISI	ON
			certify that the uidelines . a			Annro	ved by:		A '	,	11	0.
			oved plan .	a be- in	, 0.	pp.o	v j .		Jun		W	June 1
Printed name:	Ken S	eligmar	Kens			Títle:		A)	and in	1	77 . <	
Title: Engi				angre de		Appro	val Dalo	N 13	\$4003	Ynjest	ion Date:	DK 1 2 0000
		s@echr	producti	on.com		Тррго	-ai 1/410;			apii at	wii Dale.	1 3 2006
D-4	(21/05		There are			C 3'4		1 &4*	.1			

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

regulations.

Approval: Printed Name/Title

State of New Mexico Energy Minerals and Natural Resources

For drilling and production facilities, submit to appropriate NMOCD District Office.

For downstream facilities, submit to Santa Fe

Form C-144

June 1, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

office

Date: UN 0 9 2005

Pit or Below-Gra	de Tank Registration or Closus	re, /							
Is pit or below-grade tank covered by/a "general plan"? Yes \(\textstyle \) No \(\textstyle \) Type of action: Registration of a pit or below-grade tank \(\textstyle \) Closure of a pit or below-grade tank \(\textstyle \)									
Type of action: Registration of a pit o	r below-grade tank 🛛 Closure of a pit or below-grade	de tank 🗌							
Operator: Echo Production, Inc. Telephone 9	40-549-3292-mail address: ken.s@echopm	eduction.com							
PO Box 1210. Graham. TX 76450									
Facility or well name: Stiletto '16' State #2 API # 30-015-3415 U/L or Qtr/Qtr M Sec 16 T 20S R 25E									
County: F2Cty Latitude N32° 34 Longitude W104° 29' NAD: 1927 [] 1983 [] Surface Owner Federal [] State [S] Private [] Indian []									
	.3"	THE POOLET CO DEAC ESTIMAN COMMON CO							
Pit	Below-grade tank								
Type: Drilling X Production Disposal	Volume:bbl Type of fluid:								
Workover Emergency	Construction material:								
Lined 🖾 Unlined 🗌	Double-walled, with leak detection? Yes I If not	explain why not							
Liner type: Synthetic X Thickness 12 mil Clay		, or r							
Pit Volume 12800 bbl									
	Less than 50 feet	(20 points)							
Depth to ground water (vertical distance from bottom of pit to seasonal high	50 feet or more, but less than 100 feet	(10 points)							
water elevation of ground water.)	100 feet or more X	(0 points) 0							
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)							
water source, or less than 1000 feet from all other water sources.)	No x	(0 points)							
	Less than 200 feet	(20 points)							
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points)							
irrigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more X	(0 points)							
	Ranking Score (Total Points)								
	Ranking Score (Total Folicis)	0.							
If this is a pit closure: (1) attach a diagram of the facility showing the pit's	relationship to other equipment and tanks. (2) Indica	te disposal location: (check the onsite box if							
your are burying in place) onsite 🔲 offsite 🗍 If offsite, name of facility_	. (3) Attach a general d	escription of remedial action taken including							
remediation start date and end date. (4) Groundwater encountered: No 🔲 Y	es 🔲 If yes, show depth below ground surface	ft. and attach sample results. (5)							
Attach soil sample results and a diagram of sample locations and excavations	š.								
Additional Comments:									
I hereby certify that the information above is true and complete to the best of been/will be constructed or closed according to NMOCD guidelines ☑, Date: 5/31/05									
Printed Name/Title Ken Seligman / Engineer	Signature Kan Saligman								
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the	t relieve the operator of liability should the contents of	f the pit or tank contaminate ground water or							

Signature

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 811 South First, Artesia, NM 88210

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999

Fee Lease - 3 Copies

Submit to Appropriate District Office State Lease - 4 Copies

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

2040 South Pacheco

OIL CONSERVATION DIVISION

☐ AMENDED REPORT

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

Santa Fe, New Mexico 87505

API Number	Pool Code	Pool Nan	ne
	74640	Cemetary - Morrow	
Property Code		Property Name	Well Number
	STILET	ITO "16" STATE	2
OGRID No.		Operator Name	Elevation
06742	ECHO PRO	DDUCTION COMPANY	3496'

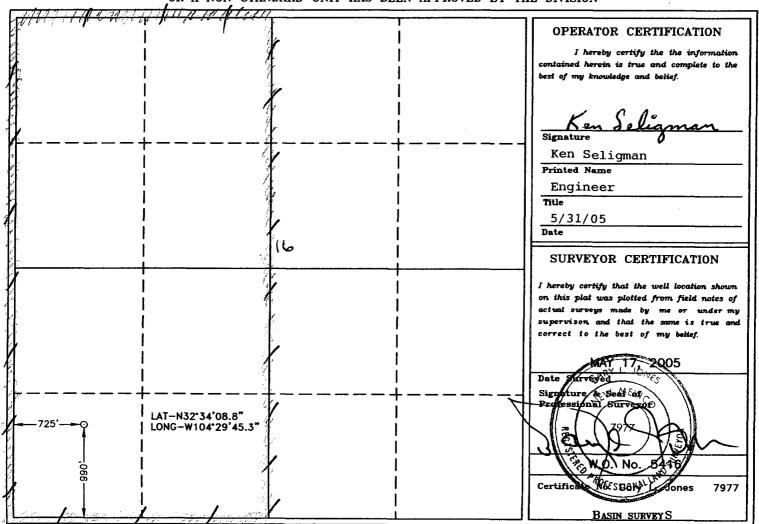
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	16	20 S	25 E		990	SOUTH	725	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Or	der No.	<u> </u>			<u> </u>

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



SECTION 16, TOWNSHIP 20 SOUTH, RANGE 25 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO. CO. RD. 27 (PICKETT ROAD) 150' NORTH OFF SET 3494.6 ECHO PRODUCTION CO. STILETTO "16" STATE #2 ELEV. - 3496' 0 -150' WEST OFF SET 150' EAST LAT-N32*34'08.8" OFF SET LONG-W104'29'45.3" 3496.3' 3498.2' 150' SOUTH OFF SET 3495.8' ⊡ 100 100 200 FEET SCALE: 1" = 100' DIRECTIONS TO LOCATION: FROM THE JUNCTION OF CO. RD. 27 AND WHITE PINE ROAD, GO NORTH ON PICKETT ROAD FOR 0.4 MILE AND WEST FOR **PRODUCTION ECHO** 0.6 MILE TO PROPOSED LEASE ROAD. REF: STILETTO "16" STATE No. 2 / Well Pad Topo THE STILETTO "16" STATE No. 2 LOCATED 990' FROM THE SOUTH LINE AND 725' FROM THE WEST LINE OF SECTION 16, TOWNSHIP 20 SOUTH, RANGE 25 EAST, BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO N.M.P.M., EDDY COUNTY, NEW MEXICO. W.O. Number: 5416 Drawn By: K. GOAD

Date: 05-23-2005

Disk: KJG CD#4 -

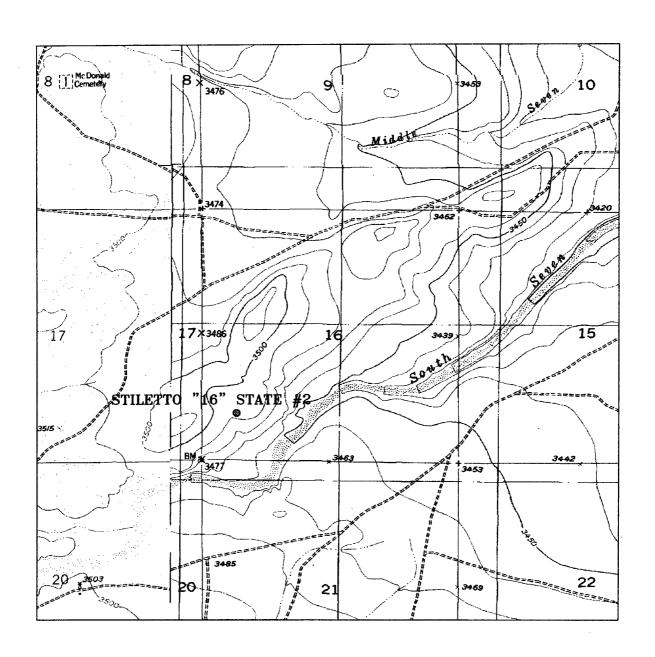
5416A.DWG

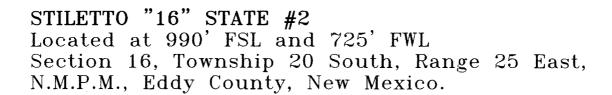
Sheet

Survey Date: 05-17-2005

of

Sheets



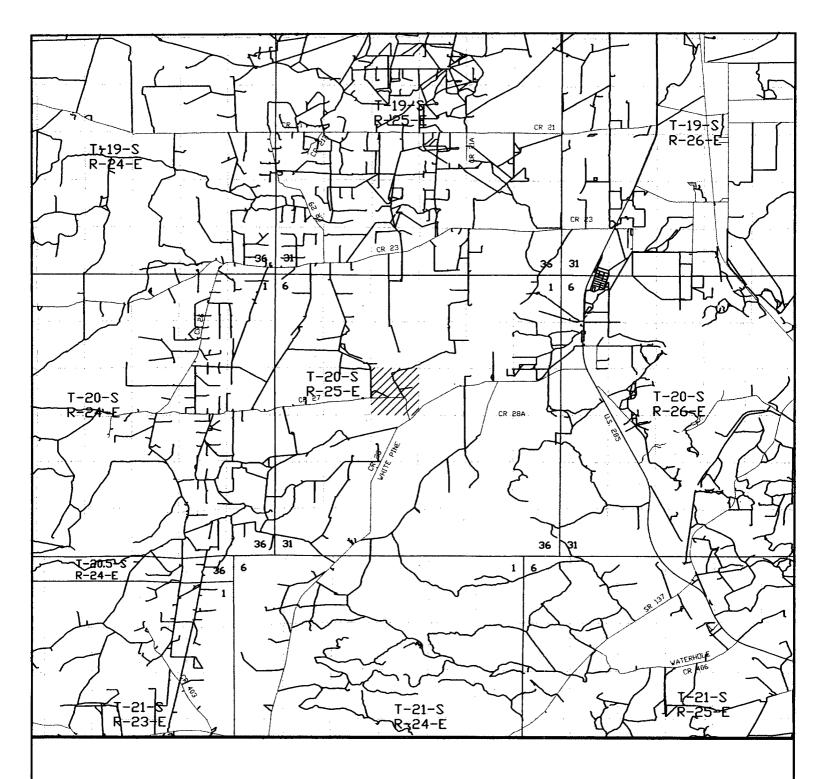




P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com

W.O. Number:	5416AA -	KJG	CD#5
Survey Date:	05-17-20	005	
Scale: 1" = 2	000'		
Date: 05-23-	-2005		

ECHO PRODUCTION COMPANY



STILETTO "16" STATE #2
Located at 990' FSL and 725' FWL
Section 16, Township 20 South, Range 25 East,
N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393—7316 — Office (505) 392—3074 — Fax basinsurveys.com

W.O. Number:	5416AA - KJG CD#5
Survey Date:	05-17-2005
Scale: 1" = 2	MILES
Date: 05-23-	-2005

ECHO
PRODUCTION
COMPANY

Echo Production, Inc.

PO Box 1210 Graham, Texas 76450 (940) 549-3292 Fax: (940) 549-5162

Stiletto '16' State #2 990' FSL & 725' FWL Section 16 T20S R25E Eddy County, New Mexico

Attached is a drilling fluids summary for the subject well. A fresh water system will be utilized for the surface to approximately 6000' and cut brine for the remainder.

Echo has drilled three offset wells which did not show any abnormally pressured zones. Sufficient mud weights will be utilized to eliminate any flow from the well. A double ram type blowout preventor will be utilized during all drilling operations and will be tested after setting both the surface and intermediate casing.

H₂S detection and safety equipment will be utilized and all rig personnel will receive safety training by a qualified H₂S safety instructor as to the following:

- A. Characteristics of H₂S
- B. Physical effects and hazards
- C. Proper use of safety equipment and life support systems
- D. Principle and operation of H₂S detectors
- E. Evacuation procedure, routes and first aid
- F. Proper use of air pack

Echo Production, Inc. Stiletto '16' State #2

Projected Mud Properties

Depth	Mud Wt ppg	Viscosity	Filtrate	pН	Solids - % by vol.
0' - 360'	8.4-9.4	32-34	N/C	10.0	3-8

General Geological Data

Tops/Bases	Formation	Lithology	Notes/Challenges
0' - 200'	Quaternary	Sand, limestone, gypsum, conglomerates	Seepage
200' - 360'	Tansill	Limestone, sand stringers, surface conglomerates	Vugular, fractured, heavy seepage, lost circulation

Interval Notes for 0 - 360

Spud with a conventional Fresh Water and Bentonite slurry. Maintain the viscosity as needed to clean the large diameter hole. Small amounts of Lime may be added to flocculate the gel for added carrying capacity. Use Fresh Water additions for dilution to keep solids to a minimum. Ground Paper should be used periodically to sweep the hole to control seepage and enhance hole cleaning. Total losses may be expected. We suggest dry drilling to total depth sweeping the hole as necessary with viscous (40-50) Bentonite pills containing 10-20 ppb of various LCM's to keep hole clean and to regain returns.

Projected Mud Properties

Depth	Mud Wt ppg	Viscosity	Filtrate	рН	Chlorides - ppm
360' - 1,400'	8.4-8.5	28	N/C	10.0	5-15K

General Geological Data

Tops/Bases	Formation	Lithology	Notes/Challenges
360' - 400'	Tansill	Limestone, sand stringers, surface conglomerates	Vugular, fractured, heavy seepage, lost circulation
400 - 725	Yates	Sand w/red shale & anhydrite stringers	
725' - 1,400'	San Andres	Limestone	Vugular, fractured, heavy seepage, lost circulation

Interval Notes for 360 - 1,400

Drill out with Fresh Water circulating the reserve. Adjust the pH to 10.0 with Lime. Continue to use Ground Paper additions to control seepage and aid in hole cleaning. Severe losses may occur in the interval. Should total losses occur, dry drill sweeping the hole with viscous (40-50) Bentonite pills containing 10-20 ppb of various LCM's to aid in hole cleaning and possibly regaining returns. Sweep and spot a viscous pill at total depth to ensure a stable well bore for casing operations.

NOTE: lost circulation can be expected below 700'. We suggest dry drilling or using an air package to regain returns.

Echo Production, Inc.

Stiletto '16' State #2

Projected Mud Properties

Depth	Mud Wt ppg	Viscosity	Filtrate	pН	Chlorides - ppm
1,400' - 6,000'	8.4-8.7	28	N/C	10.0	5-35K
6,000 - 8,000	9.0-9.3	28	N/C	10.0	70-90K

General Geological Data

Tops/Bases	Formation	Lithology	Notes/Challenges	
1,400' - 2,300'	San Andres	Limestone, w/salt stringers	Hole erosion, deviation	
2,300 - 4,000	Glorietta	Limestone		
4,000 - 6,350	Bone Spring	Limestone, sand stringers	Seepage	
6,350' - 6,700'	3rd Bone Spring Sand	Sand		
6,700' - 7,650'	Wolfcamp	Shaly limestone	Sloughing	
7,650' - 8,000'	Cisco			

interval Notes for 1,400 - 8,000

Drill out from intermediate casing with Fresh Water. Continue to circulate the reserve. Adjust the pH to 10.0 with Caustic Soda. Continue to use Ground Paper to control seepage and aid in hole cleaning. Small amounts of MF-55 may be added to flocculate fine drill solids and sweep the hole. Begin Brine additions at approximately 6,000' to raise the mud weight to 9.0-9.3 ppg. Sweep the hole only as necessary with viscous (40-50) Bentonite pills to aid in hole cleaning.

NOTE: some salt stringers may be present below 1,400'. We suggest allowing the chloride increase to occur, maintaining the weight as necessary.

Projected Mud Properties

Depth	Mud Wt ppg	Viscosity	Filtrate	pН	Chlorides - ppm
8,000 - 9,850	9.3-10.2	32-40	10-6cc	10.0	70-140K

General Geological Data

Tops/Bases	Formation	Lithology	Notes/Challenges	
8,000' - 8,200'	Cisco	Limestone	Mud up	
8,200' - 9,000'	Strawn	Shaly limestone	Poss gas kick	
9,000' - 9,200'	Atoka	Sandy shale	Poss gas kick	
9,200' - 9,550'	Morrow	Shaly calcareous sand	Pay Zone	
9,550 - 9,600	Lower Morrow	Shaly calcareous sand	Pay Zone	
9,600' - 9,850'	Barnett	Shale	TD	

Interval Notes for 8,000 - 9,850

Return to the working pits with a Cut Brine weighing 9.0-9.3 ppg. Discontinue the use of MF-55. Adjust the pH to 10.0 with Caustic Soda. Pre-treat the system with STC (biocide). Add White Starch to lower the filtrate to 10cc or less. Small amounts of defoamer may be needed while adding Starch to prevent the aeration of the pumps. Increase the weight as necessary with Brine and/or Salt additions. Use Barite only if weights above 10.0 ppg are necessary. Use XCD Polymer for any added viscosity. Use Mica and MIX-II for seepage and/or loss control. The existing properties should be adequate for any logging and casing operations. We would suggest sweeping the hole at total depth with a viscous (40-45) XCD Polymer pill to ensure a stable environment for logging and casing.