OCD-ARTESIA FORM APPROVED Form 3160-3 OMB No. 1004-0137 Expires March 31, 2007 (April 2004) UNITED STATES Lease Serial No. DEPARTMENT OF THE INTERIOR NM-108024 BUREAU OF LAND MANAGEMENT 6. If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRIVE OF PERMIT 7 If Unit or CA Agreement, Name and No. X DRILL REENTER la. Type of work: 8. Lease Name and Well No. 33431 Gas Well Other Single Zone Multiple Zone Oil Well lb. Type of Well: Stiletto 21 Fed Com 9. API Well No. Name of Operator Echo Production. Inc. 50 Phone No. (include area code) 10. Field and Pool, or Exploratory 3a. Address Cemetary-Morrow PO Box 1210, Graham, TX 76450 (940) 549-3292 11. Sec., T. R. M. or Blk. and Survey or Area 4. Location of Well Report location clearly and in accordance with any State requirements.*) 660' FSL 660' FEL Sec 21 T20S R25E At proposed prod. zone 12. County or Parish 14. Distance in miles and direction from nearest town or post office* Eddy NM 13 miles NW of Carlsbad, NM 15 Distance from proposed* 17. Spacing Unit dedicated to this well 16. No of acres in lease location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 3201 660' 20. BLM/BIA Bond No. on file Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 19. Proposed Depth 9850' NM2692 2642 22. Approximate date work will start 23. Estimated duration 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3493! GR 9/20/06 4 weeks 24. Attachments The following completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form: 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2 A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification Such other site specific information and/or plans as may be required by the authorized officer. SUPO shall be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) 8/21/06 Ken Seligman Title Name (Printed Type) Tony J. Herrell Approved by Sind Pony J. Herrell Date SEP 0.5 2008 Title Office FIFI D MANAGER

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. APPROVAL FOR 1 YEAR Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

CARLSBAD CONTROLLED WATER BASIN

SESE P APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS O PO d ATTACHED

Witness Surface & Intermediate Casing

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.

BLM-CARLSBAD FIELD OFFICE

Do not use t	UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MAN NOTICES AND REF this form for proposals to vell. Use Form 3160-3 (A	NM-10	FORM APPROVED OM B No. 10040137 Expires: March 31, 2007 5. Lease Serial No. NM—108024 6. If Indian, Allottee or Tribe Name		
SUBMIT IN TRIPLICATE- Other instructions on reverse side.					r CA/Agreement, Name and/or No.
1. Type of Well Oil Well	X Gas Well Other			8. Well Na	me and No.
2 Name of Operator Echo Froduction	, Inc.		,	Stile 9 APIW	etto 21 Fed Com #2
3a Address PO Box 1210, Gr	aham, TX 76450		(include area code) 549-3292	10 Field at	nd Pool, or Exploratory Area
4. Location of Well (Footage, Sec.				Cemeta	orParish, State
660' FSL & 660' Sec 21 T20S R25				Eddy,	NM
12. CHECK A	APPROPRIATE BOX(ES) TO	INDICATE ?	ATURE OF NOTICE,		
TYPE OF SUBMISSION			TYPE OF ACTION		
Notice of Intent	Actilize After Casing	Deepen Practure Tre	J*****1	(Start/Resume)	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair Change Plans	New Constr			Other
Final Ahandonment Notice	Convent to Injection	Plug Back	Water Dispo		
Attach the Bond under which following completion of the intesting has been completed. I document that the size is read Drilling permit cemented to sur be set at 406'.	the work will be performed or proving the work will be performed or proving the operation. If the operation is made about our ment Notices shall be it by for final inspection.) was submitted purface. A BLM review	de the Bond No. results in a multip filed only after all roposing ew resul	on file with BLM/BIA. Req le completion or recompleti requirements, including rec that 8 5/8" of ted in require	paired subsequents on in a new intervi lamation, have been cassing be ing that	ıl, a Form 3160-4 shail be filed once
	coximately 500 sx				
Remaining casin	g proposal (8 5/8	8" at 140	00' and 5 1/2'	" at TD)	will remain the same.
			e e e e e e e e e e e e e e e e e e e		
	· .		$(s) = (s, s, s) \in \mathbb{N}$		•
14. Thereby certify that the for Name (Printed/Typed) Tom Golden	egoing is true and correct		ide Operations	s Manager	
Signature	Yoldo.	<u>;</u> ;	Danto 9/1/06		,
	THIS SPACE FOR F	EDERAL	OR STATE OFFIC	E USE	
certify that the applicant holds legs which would entitle the applicant t Title 18 U.S.C. Section 1001 and Tit		the subject lease crime for any pe	office C C		Date 9/1/2006

(Instructions on page 2)

ENTERED IN AFMSS

DISTRICT'I ,1625 N. French Dr., Hobbs, NM 88240 DISTRICT II

DISTRICT III

1301 W. Grand Avenue, Artesia, NM 88210

State of New Mexico Energy, Minerals and Natural Resources Department

K-06-54 8/22/06

Form C-102

Revised October 12, 2005

Fee Lease - 3 Copies

Submit to Appropriate District Office State Lease - 4 Copies

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

☐ AMENDED REPORT

1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name	
	74640	Cemetary; Morrow (Gas)	
Property Code	P	Well Number	
33131	STILETTO ":	2	
OGRID No.	0	Elevation	
06742	ECHO PROI	3493'	

Surface Location

1	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	Р	21	20 S	25 E		660	SOUTH	660	EAST	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 (ode Or	der No.				
320									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION							
	still fill the fill the file						
	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and behief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest,						
	or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.						
	Stiletto Fed Commit 1 Engineer 8/21/06 Printed Name						
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my						
	LAT-N32°33'12.6" LONG-W104°28'59.8" NAME OF THE Date Supervisor, and that the same is true and correct to the best of my betief. Date Supervisor, and that the same is true and correct to the best of my betief. Date Supervisor, and that the same is true and correct to the best of my betief.						
	(NAD-83) Senature & Se						
	3500.2 2 3495.3' Centricate Sign Port Jones 7977 BASIN SURVEYS						

SURFACE USE AND OPERATING PLAN FORM 3160-3 APPLICATION FOR PERMIT TO DRILL ECHO PRODUCTION, INC. STILETTO '21' FEDERAL #2 660' FSL & 660' FEL SECTION 21-20S-25E EDDY COUNTY, NEW MEXICO

Submitted with Form 3160-3, Application For Permit to Drill covering the above proposed well. The purpose of the plan is to describe the location, the proposed construction activities, the operations, the surface disturbance involved, and the rehabilitation of the surface after completion of proposed well so that an appraisal can be made of the environment affected by the proposed well.

1. Existing Roads:

- A. The Well Location and Acreage Dedication Plat for the proposed wellsite was staked by Gary L. Jones, Registered Professional Surveyor, Carlsbad, New Mexico and is attached.
- B. All roads to the location are shown on Exhibit "B". The existing roads are adequate for travel during drilling and production operations.
- C. Directions to location: From the junction of State Hwy 285 and Co. Rd. 28 (White Pine Rd.) Go West, Southwest, 4.7 Mi., to proposed road on left.
- D. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as operations continue on the lease.

2. Proposed Access Road:

A new access road of approximately 3535' will be required as illustrated on Exhibit B.

- A. The average grade will be less than 5%.
- B. No turnouts will be necessary.
- C. No culverts, gates or low water crossing will be necessary.

D. Surfacing material will consist of native caliche. Caliche will be obtained from the nearest BLM approved caliche pit. Any additional materials that are required will be purchased from the dirt contractor.

3. Location of Existing Wells:

All existing wells within a one mile radius of proposed well are show on Exhibit "C".

4. Location of Existing and/or Proposed Facilities:

In the event the proposed well proves to be productive Echo Production, Inc. will furnish plats showing "on well pad" facilities and "off well pad" facilities (if necessary) by Sundry Notice prior to construction.

5. Location and Type of Water Supply:

The proposed well will be drilled with a fresh water-brine mud system as outlined in the Hole Prognosis. The water will be purchased from commercial water stations in the area and trucked to the location by transport over the existing access roads as indicated on Exhibit "B". No water well will be drilled on the location.

6. Source of Construction Materials:

All caliche required for construction of the drill pad will be obtained from a BLM approved caliche pit. All roads and pads will be constructed of 6" rolled and compacted caliche.

7. Methods of Handling Water Disposal:

- A. Drill cuttings not retained for evaluation purposes will be disposed into the reserve pit.
- B. Drilling fluids will be contained in steel mud tanks. The reserve pit will contain any excess drilling fluid or flow from the well during drilling, cementing and completion operations. The reserve pit will be an earthen pit approximately 150' x 150' x 6' deep and fenced on three sides prior to drilling. The fourth side will be fenced immediately following rig removal. The reserve pit will be plastic lined (12 mil thickness) to minimize loss of drilling fluids and saturation of the ground with brine water. Drilling fluids will be allowed to evaporate in the reserve pits until dry.
- C. Water produced from the proposed well during completion may be disposed into the reserve pit or a steel tank (depending upon rates). After the proposed well is permanently placed on production, produced water will be collected in a fiberglass tank and piped to an approved disposal system. Produced oil will be collected in steel tanks until sold.
- D. A portable chemical toilet will be provided on the location for human waste during the drilling and completion operations. Compliance with current laws and regulations will be followed pertaining to the disposal of human waste.
- E. Garbage and trash produced during drilling or completion operations will be disposed in a separate trash trailer on location. All waste material will be contained to prevent scattering by the wind. All water and fluids will be disposed of into the reserve pit. Salts and other chemicals produced during drilling or testing will be disposed into the reserve pit. No toxic waste or hazardous chemicals will be produced by the operation.

F. After the rig is moved out and the proposed well is either completed or abandoned, all waste materials will be removed within 30 days. No adverse materials will be left on the location. The reserve pit will be completely fenced and kept closed until dried. When the reserve pit is dry enough to breakout and fill and, as weather permits, the unused portion of the well site will be leveled and reseeded as per BLM specifications. Only that portion of the pad required for production operations will remain in use. In the event of a dry hole, only a dry hole marker will remain.

8. Ancillary Facilities:

No airstrip, campsite or other facility will be built as a result of the operations of the proposed well.

9. Well Site Layout:

- A. The drill pad layout is shown on Exhibit "D". Dimensions of the pad, pits and location of major rig components are shown. Top soil, if available, will be stockpiled per BLM specifications as determined at the on-site inspection. Since the pad is fairly level no major cuts will be required.
- B. Planned orientation for the rig and associated drilling equipment, reserve pit, pipe racks, turn-around and parking areas, and access road are shown on Exhibit "D". No permanent living facilities are planned, however, a temporary foreman/toolpusher's trailer will be on location during drilling operations.

C. The reserve pit will be lined with a high quality plastic sheeting (12 mil thickness).

10. Plan for Restoration of the Surface:

- A. Upon completion of the proposed operations, should the proposed well be abandoned, the pit area, after allowed to dry, will be broken out and leveled. The original topsoil will be returned to the entire location, and leveled and contoured to the original topography as closely as possible.
 - All trash, garbage and pit lining will be removed in order to leave the location in an aesthetically pleasing condition. All pits will be closed and restored per BLM and OCD regulations.
- B. The disturbed area will be revegetated and reseeded during the proper growing season with a seed mixture of native grasses as recommended by the BLM.
- C. Three sides of the reserve pit will be fenced prior to and during drilling operations. At the time the rig is removed, the reserve pit will be fence on the rig (fourth) side to prevent livestock or wildlife from becoming entrapped. The fencing will remain in place until the pit area is cleaned and leveled. No oil will be left on the surface of the fluid in the pit.
- D. Upon completion of the proposed operations, should the proposed well be productive, the reserve pit area will be treated as outlined above. The caliche from an area of the original drillsite not needed for production operations or facilities will be removed and used for construction of thicker pads or firewalls for the tank battery installation. Any additional caliche required for facilities will be obtained from a BLM approved caliche pit. Topsoil removed from the drillsite will be used to recontour the pit area and unused portions of the drill pad to the original natural level and reseeded as per BLM specifications.

11. Surface Ownership:

The wellsite is located entirely on Federal surface.

12. Other Information:

- A. The topography around the wellsite is fairly flat terrain with vegetation of sagebrush and native grass. The vegetation cover consists of prairie grasses and flowers. Wildlife in the area includes those typical of semiarid desert land.
- B. The soils are clayey sand over caliche base.
- C. There is no permanent or live water in the immediate area.
- D. There are no residences and other structures in the area.
- E. The land in the area is used primarily for grazing purposes.
- F. An archaeological study has been performed and will be submitted separately.

13. Lessee's and Operator's Representative:

Ken Seligman PO Box 1210 Graham, Texas 76450

Phone Number: (940) 549-3292 – office (940) 550-4390 – cellular

14. Certification:

Thereby certify that I, or persons under my direct supervision have inspected the proposed drillsite which currently exists; that the statements made in the plan are to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Echo Production, Inc. and its contractors and sub-contractors in conformity with the plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 USC 1001 for the filing of a false statement.

ECHO PRODUCTION, INC.

Engineer

DATE: August 21, 2006

HOLE PROGNOSIS FORM 3160-3 APPLICATION FOR PERMIT TO DRILL ECHO PRODUCTION, INC. STILETTO '21' FED COM #2 660' FSL & 660' FEL SECTION 21-20S-25E EDDY COUNTY, NEW MEXICO

In conjunction with Form 3160-3 Application for Permit to Drill, Echo Production, Inc. submits the following items in accordance with Onshore Oil and Gas Order Numbers 1 and 2, and all other applicable federal and state regulations.

1. Geological Name of Surface Formation:

Permian

2. Estimated Tops of Geologic Markers:

San Andres	900'	Strawn	8250'
Glorieta	2700'	Atoka	9050'
Bone Spring	3400'	Morrow	9300'
3 rd Bone Spring Sand	6450'	Barnett	9700'
Wolfcamp	6800,		
Cisco Lime	7750'		

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

Surface	150'	Fresh Water
Glorieta	2510'	Oil or Gas
Wolfcamp	6800'	Oil or Gas
Cisco Lime	7750'	Oil or Gas
Atoka	9050'	Oil or Gas
Morrow	9300'	Oil or Gas

No other formations are expected to produce oil, gas or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 8 5/8" casing at 1400' and circulating cement back to surface. Any shallower zones above TD that contain commercial quantities of oil and/or gas will have cement circulated across the zone.

HOLE PROGNOSIS STILETTO '21' FED COM #2 PAGE 2

4. Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>OD Csg</u>	Weight, Grade, JT. Cond, Type
17/2/	6-406	133/8	46 H
12 ¼"	0-1 <u>/</u> 400'	8 5/8" [°]	32# J-55 LT&C
7 7/8"	1400'-TD	5 ½"	17# N -80

5. Cementing Program:

SUFFACE

13 % set at 406' and comented with approximately 500 sx, circ to surface,

Surface Casing:

Intermediate

8 5/8" casing will be set at approximately 1400' and cemented with approximately 875 sacks of 35/65 Poz "c" with additives. The amount may be adjusted dependent upon fluid caliper results, however, cement in sufficient quantities to circulate will be utilized.

Production Casing:

If appropriate, 5 ½" casing will be set at Total Depth. Echo will utilize cement in sufficient quantities to bring cement back to intermediate string. Well will be cemented w/appropriate number of sacks of Class C Lite w/ additives and 200 sacks of neat for tail

200

HOLE PROGNOSIS STILETTO '21' FEDERAL #2 PAGE 3

6. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) show in Exhibit "A" will consist of a double ram-type (5000 psi WP) preventer and a bag-type (hydril) preventer (5000 psi WP). Both units will be hydraulically operated and the ram-type preventer will be equipped with blind rams on top and 4 ½" drill pipe rams on bottom. Both BOP's will be nippled up on the 8 5/8" surface casing and used continuously until TD is reached. Before drilling out of surface casing, the ram-type BOP and accessory equipment will be tested to at least 3000 psi, and the hydril to 70% of rated working pressure (2100 psi).

7. Types and Characteristics of the Proposed Mud System:

O' to 1400' Fresh water with lime, gel paper and fiber will be used for drilling purposes. MW 8.7 – 9.2, Vis 29-36, pH > 8.

1400' to 6000' Fresh water with lime, gel, and paper. Caustic to adjust pH. Sweep hole w/ MF-55. MW 8.4-8.7, Vis 28, WL – NC, pH >10, Chlorides 5-35k ppm.

6000' to 8000' Same as above, continuing to circulate reserve. Begin brine additions to increase MW 8.7-9.1 lb/gal. Sweep hole w/bentonite pills. MW 8.7-9.1 ppg, Vis 28, WL – NC, pH 10, Chlorides 25-90k ppm.

8000 to 9850' Cut brine to brine mud. Return to steel pits and pre-treat w/biocide. Use starch to control water loss (WL) and polymer for WL and viscosity. Increase MW up to 10.0 w/ brine and Barite if needed above 10.0 ppg. Use Mica for seepage control. MW 9.3-10.0 ppg, Vis 28-32, WL 10-6cc, pH 10.0, Chlorides 70-140k ppm.

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

HOLE PROGNOSIS STILETTO '21' FEDERAL #2 PAGE 4

8. Auxiliary Well Control and Monitoring Equipment:

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

9. Testing, Logging and Coring Program:

Mudlogging unit will be employed from approximately 6000' to 9850' (Total Depth).

If indicated, DLL-GR, CNL-LDT-GR logs and Caliper logs will be run at TD. The Gamma Ray AIT will be run from TD back to the surface casing. The Gamma Ray Compensated Neutron Log will be run from TD back to surface. If indicated, Echo may elect to run rotary sidewall cores from selected intervals from approximately 6700' to 9650' dependent upon logging results.

10. Abnormal Conditions, Pressures, Temperatures and Potential Hazards:

No abnormal pressures or temperatures are anticipated. Anticipated bottomhole pressure is 4300# PSI.

Loss of circulation is possible in the upper section of the hole, and possible total losses in surface section of the hole, no other major loss circulation zones have been reported in offsetting wells.

From previous drilling in the area, Hydrogen Sulfide is not expected. Hydrogen Sulfide training will be provided and appropriate breathing apparatus is located on site. If necessary, the well can be shut in utilizing the blow out preventer and other equipment to prevent the migration of Hydrogen Sulfide to the surface.

HOLE PROGNOSIS STILETTO '21' FEDERAL #2 PAGE 5

11. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is September 20, 2006. Once commenced, the drilling operation will be completed in approximately 21 days. If the well is productive, an additional 15 days will be required for completion and testing before a decision is made to install permanent facilities. In conjunction with Form 3160-3, Application for Permit to Drill, Echo Production, Inc submits the following items in accordance with Onshore Oil and Gas Order Numbers 1 and 2, and all other applicable federal and state regulations.

EXHIBIT "A"

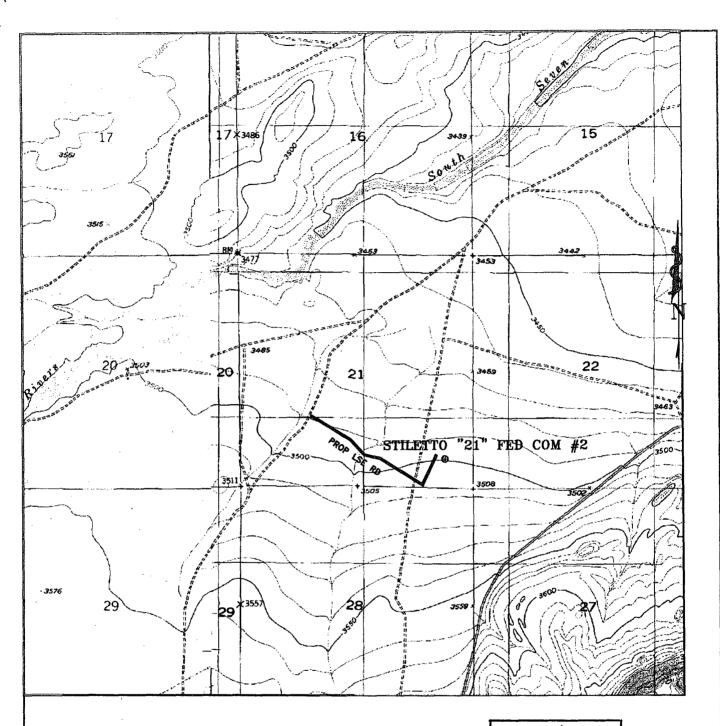
EQUIPMENT DESCRIPTION

All equipment should be at least 3,000 psi WP or higher unless otherwise specified.

- 1. Bell nipple
- 2. Hydril bag type preventer
- 3. Ram type pressure operated blowout preventer with blind rams.
- 4. Flanged spool with one 3"and one 2"(minimum) outlet.
- 5. 2"(minimum) flanged plug or gate valve.
- 6. 2"x 2"x 2"(minimum) flanged.
- 7. 3"gate valve.
- 8. Ram type pressure operated blowout preventer with pipe rams.
- 9. Flanged type casing head with one side outlet.
- 10. 2" threaded (or flanged) plug or gate valve. Flanged on 5000# WP, threaded on 3000# WP or less.
- 11. 3" flanged spacer spool.
- 12. 3"x 2"x 2"x 2" flanged cross.
- 13. 2" flanged plug or gate valve.
- 14. 2" flanged adjustable choke.
- 15. 2" threaded flange.
- 16. 2" XXH nipple.
- 17. 2" forged steel 90 Ell.
- 18. Cameron (or equal) threaded pressure gauge.
- 19. Threaded flange.
- 20. 2" flanged tee.
- 21. 2" flanged plug or gate valve.
- 22. 2 1/2" pipe, 300' to pit, anchored.
- 23. 2 1/2" SE valve.
- 24. 2 1/2" line to steel pit or separator.

NOTES:

- 1). Items 3,4 and 8 may be replaced with double ram type preventer with side outlets between the rams.
- 2). The two valves next tho the stack on the fill and kill line to be closed unless drill string is being pulled.
- 3). Kill line is for emergency use only. This connection shall not be used for filling.
- 4). Replacement pipe rams and blind rams shall be on location at all times.
- 5). Only type U, LSW and QRC ram type preventers with secondary seals are acceptable for 5000 psi WP and higher BOP stacks.
- 6). Type E ram-type BOP's with factory modified side outlets may be used on 3000 psi or lower WP BOP stacks.



STILETTO "21" FEDERAL COM #2

Located at 660' FSL and 660' FEL

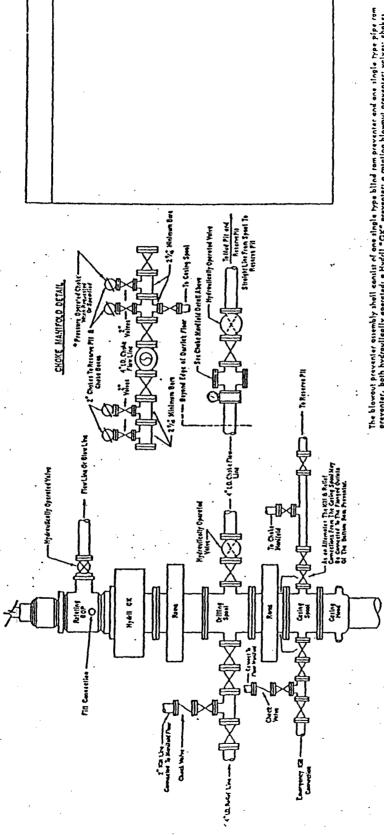
Section 21, Township 20 South, Range 25 East, N.M.P.M., Eddy County, New Mexico.



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. N	lumber:	JMS	7049T	
Survey	Date:	08-	09-2006	3
Scale:	1" = 20	000'		
Date:	08-10-	-2006	and the same	and the state of t

ECHO PRODUCTION COMPANY



The blowout prevenier assembly shall consist of one single type bill of rom prevenier and one single type pipe for prevenier, both hydroulicelly operated a Hydril "GK" preveniers a rotating blowout prevenier valves; shakes and connections, as illustrated. If a sopered drill string is used, a rom prevenier must be provided for each size of drill pipe, Casing and lubing roms is fit the prevenier new or a consistent of the connection of the connection is the connection to the fit of the confidence of the connection is the confidence of the confidenc

3000 # PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

pumpt, driven by a continuous source of power, copobie of fiuld charging the total accumulator valume from the nitrogen precharge pressure to its roted pressure within _____ minutes. Also, the pumpt ere to be connected to the hydrovite operating system which is to be a closed system. (2) Accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as so receive the aforementioned fluid charge. With Minimum operating equipment for the preventers and hydrociteolty, operated volves shall be as fallows. (1)2401101

the chaiging pumps shul down, the pressurfaced fluid volume stored in the accumulator must be sufficient to close off the pressure-appetated devices simultaneously within ______ second; of the accountage of the engines, (3) When requisited, on additional source of power, remaining eccumulator pressure shall be above pumps of these should power and equivalent, is to be eveilable to apperate the above pumps of these shall be edditional pumps operated by separate power and equal in parlamence copabilities.

The closing meniald and remate elesing manifold shall have a separate control for each pressure apparate devices. Consoles are to be lobeled, with control handles included for operating the Hyddl preventer. When requested prostore reduces shall be evolvable to simil certaing thid pressures to rom preventen. Cult Legion No. 38 hydroulis all, an equivalent or bester, is so be used as the fluid to operate the fluid received.

The above menifold, above flow line, and above lines are to be supported by matal stands and obsquately analysis, relief line, and above lines shell be constructed as straight as possible and without shape bonds. Easy and sofe occast is to be maintained to the chains are to be referred for one accounts to a control of the chain menifold. All valves are to be referred for operation in the presence of oil, gas, and dilling fluids. The chains and relief line valves connected to the distings spool and dilling fluids. The chain wish be equipped with siem extensions, universal joints if needed, and hand what's which hard beyond the edge of the derrick substructors. All other volves are to be equipped with handles.

* To Include derrick floor mounted controls.

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

Operator Name: ECHO PRODUCTION, INC.

Street or PO Box: PO Box 1210 City, State: Graham, Texas

Zip Code: 76450

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No.: NM 108024 (Stiletto '21' Federal)

Legal Description of Land: E/2 Sec 21 T20S R25E

Formation(s) (if applicable): Morrow

Bond Coverage: (State if individually bonded or another's bond)

Statewide Bond - Echo Production, Inc.

BLM Bond File No.: NM 2692

Authorized Signature: <u>Ken Seligman</u> Ken Seligman

Title: Engineer

Date: August 21, 2006

Conditions of Approval

Cave and Karst

EA#: NM-080-06-1264 Lease #: NM-108024 Echo Production, Inc. Stiletto 21 Fed. Com. #2

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Berming:

Any tank batteries will be constructed and bermed large enough to contain any spills that may occur.

Bermed areas will be lined with rip-stop padding to prevent tears or punctures in liners and lined with a permanent 20 mil plastic liner.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Rotary drilling techniques in cave or karst areas will include the use of fresh water as a circulating medium in zones where caves or karst features are expected. See geologist report for depth.

Casing:

All casing will meet or exceed National Association of Corrosion Engineers specifications pertaining to the geology of the location and be run to American Petroleum Institute and BLM standards.

Cementing:

All casing strings will be cemented to the surface.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported.

Regardless of the type of drilling machinery used, if a bit drops of four feet or more and circulation losses greater then 75 percent occur simultaneously while drilling in any cavebearing zone, drilling operations will immediately stop and the BLM will be notified by the operator. The BLM will assess the consequences of the situation and work with operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment the well bore will be cemented completely from 100 feet below the bottom of the cave bearing zone to the surface.

Pressure Tests:

Annual pressure tests will be performed by the Operator on all casing annuli. If the test results indicated a casing failure, remedial actions approved by the BLM will be undertaken to correct the problem.

Differential Shut-off Systems:

A leak detection system and differential shut off systems will be installed for pipelines and tanks used in production or drilling.

Record Keeping:

The Operator will track customary drilling activities, including the rate of penetration, pump pressure, weight on bit, bit drops, percent of mud returns, and presence of absence of cuttings returning to the surface. As part of customary record keeping, each detectable void or sudden increase in the rate of penetration not attributable to a change in the formation type should be documented and evaluated as it is encountered.

CONDITIONS OF APPROVAL - DRILLING

Well Name & No. Stiletto 21 Fed Com #2 Operator's Name: Echo Production, Inc.

Location: 660' FSL, 660" FEL, Section 21, T-20-S, R-25-E

Lease: NM-108024

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 234-5972 or (505) 361-2822 (After hours) - for wells in Eddy County, in sufficient time for a representative to witness:

- A. Spudding
- B. Cementing casing: 13-3/8 inch 8-5/8 inch 5-1/2 inch
- C. BOP tests
- 2. A Hydrogen Sulfide (H2S) Drilling Plan should be available prior to drilling into the <u>Wolfcamp</u>
 Formation. A copy of the plan shall be posted at the drilling site. H2S is always a possible hazard. It has been reported in Sec. 5 from the Dagger Draw Upper Penn pool on the order of 2000 ppm in the gas stream. It is the only measured value in the entire township.
- 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 four 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.
- 6. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.
- 7. Gamma-Ray/Neutron logs shall be run from the base of the Salado Formation to the surface; cable speed not to exceed 30 feet per minute.

II. CASING:

NB! Third casing string added.

Possible lost circulation zones in the San Andres, Wolfcamp, and Strawn.

- 1. The 13-3/8 inch surface casing shall be set at 406 feet, below usable water and cement circulated to the surface. 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 <u>8-5/8</u> inch intermediate casing is <u>circulate cement to the surface</u>. The intermediate is to be set at 1500 feet.
- 3. The minimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>cement to extend 200'</u> into the intermediate casing.

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 13-3/8 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. Minimum working pressure of the blowout preventer and related equipment (BOPE) required for drilling the surface and intermediate casing shall be <u>2000</u> psi. Minimum working pressure of the blowout preventer and related equipment (BOPE) required for drilling below the <u>8-5/8</u> inch casing shall be <u>3000</u> psi.
- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- The tests 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 a safe workman-like manner. Hard line connections shall be required.
- BOPE must be tested 500' prior to drilling into the Wolfcamp Formation by an independent service company.

IV. DRILLING MUD:

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** Formation, and shall be used until production casing is run and cemented. Monitoring equipment shall consist of the following:

- 1. Recording pit level indicator to indicate volume gains and losses.
- 2. Mud measuring device for accurately determining the mud volumes necessary to fill the hole during trips.
- 3. Flow-sensor on the flow line to warn of abnormal mud returns from the well.