Jdrv			s	14K
	.4 0 46	m t 1 .		0(11
N. M. Oil		Division	2450	FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000
	S. 13T S	1. 12	343078	30.
ARTESIA	, NM 862	0-2004	A	01
5 1//01		6	OCCC TO	1 IN
Form 3160-3 (August 1999)		8	CEIVED	G FORM APPROVED OMB No. 1004-0136
UNITED STATES	5		ARTESI	Expires November 30, 2000
DEPARTMENT OF THE II				5. Clease Serial No. LC-064894
BUREAU OF LAND MANA APPLICATION FOR PERMIT TO DI			-1	9
	AILL OR	HEENTEH CZZ	212020	
Ia. Type of Work: 🚺 DRILL 🚺 REENTE	R	REENTER		7. If Unit or CA Agreement, Name and No.
				8. Lease Name and Well No.
Ib. Type of Well: Ib. Compare of Well: Ib. Compare of Other 2. Name of Operator T Dotter		Single Zone 📙 Multi	ple Zone	Conoco Federal, Wall No. 1
2. Name of Operator J. Ray Stewart //4	109			9. API Well No. 30-015-31369
3a. Address	3b. Phone I	No. (include area code)		10. Field and Pool, or Exploratory UNDES
P.O. Box 451 Midland, TX 79702	(9:	15) 687-108	5	Corral Canyon Delaware
4. Location of Well (Report location clearly and in accordance with	any State req	uirements.*)		11. Sec., T., R., M., or Blk. and Survey or Area
At surface 1980' FNL & 660	′ F S L			
At proposed prod. zone Same	ŵ	UNIT	E	Sec. 20-T25S-R30E
14. Distance in miles and direction from nearest town or post office 37 miles SE of Carlsbad,	NM			12. County or Parish. 13. State Eddy NM
15. Distance from proposed* location to nearest	16. No. of	Acres in lease	17. Spacing	g Unit dedicated to this well
property or lease line, ft. (Also to nearest drig. unit line, if any) 660'	9	960		40
 Distance from proposed location* to nearest well, drilling, sompleted, 	19. Propos	ed Depth	20. BLM/B	IA Bond No. on file
applied for, on this lease, ft. 1320'		3800'		NM-2818
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	cimate date work will sta	rl*	23. Estimated duration
3187' GL		9/15/00		3 weeks
		achments		
The following, completed in accordance with the requirements of Onshore	e Oil and Ga	s Order No.1, shall be att	ached to this	form:
1. Well plat certified by a registered surveyor.			e operation	s unless covered by an existing bond on file (see
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest System 1 		ltem 20 above). 5. Operator certifica	ition.	
SUPO shall be filed with the appropriate Forest Service Office).	ands, the	6. Such other site s authorized office	specific info r.	rmation and/or plans as may be required by the
25. Signature		(Printed/Typed)		Date
Tile Klevsgik Amite	; (Beorge R. Sn	nith	08/25/00
Agent for: J. Ray Stewart				
Approved by (Signature) /S/LARRY D. BRAY	Name	t (Printed/Typed)	<u> </u>	Date OCT 0 2 2000
Title Assistant Field Manager,	Offi	ROSWELL FIELD	OFFICE	APPROVED FOR 1 YEAR
Application approval does not warrant or centry the the applicant holds le operations thereon.	gal or equital	ble title to those rights in	the subject le	ease which would entitle the applicant to conduct
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 States any false, fictitious or fraudulent statements or representations as to	a crime for a any matter v	ny person knowingly and vithin its jurisdiction.	d willfully to	make to any department or agency of the United

0

Lease Responsibility Statement: J. Ray Stewart accepts all applicable terms, conditions, stipulations and restrictions concerning operations conducted on the leased land or portion thereof.

George R. Smith

_

•



District I		State of	of New Mexico		Form C-102
1625 N. French Dr., Hobbs, N	im 88240	Energy, Miner	rals & Natural Resources		Revised March 17, 1999
District II #11 South First, Artesia, NM District III	\$8210		RVATION DIVISION	Submit to	Appropriate District Office
1000 Ris Brazes Rd., Aztec, 1 District IV	im 87410	2040 Santa	South Pacheco Fe. NM 87505		State Lease - 4 Copies Fee Lease - 3 Copies
2049 South Pacheco, Santa Fe	. NM 87505				AMENDED REPORT
	WELL LO	CATION ANE	ACREAGE DEDICATION	I PLAT	
API Numbe	r	² Paol Code	Corral Canyon De	Pool Name Laware	
* Property Code		, i	Property Name		Well Number
	CONOCO FEDER	AL			1

OGRID No.

		J.	RAY STE	WART	•				3187.
					¹⁰ Surface I	Location			
UL or lot no.	Section	Township	Range	Let Idn	Feet from the	Nerth/South line	Feet from the	East/West line	County
Е	20	25-S	30-E	[1980	NORTH	660	WEST	EDDY
			" Bott	om Hole	e Location If	Different Fron	n Surface	<u></u>	
UL or let no.	Section	Township	Range	Let Ida	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres	i ¹³ Johnt o	r Infill '	Conselidation Co	de ¹³ Ord	ler No.				
40									

¹ Operator Name

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL AL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16		¹⁷ OPERATOR CERTIFICATION 1 hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
1980'		Deserth Smith
660	NM-064894 Comoco= 100%	Signature George R. Smith, agent for: Primed Name J. Ray Stewart
		Title 08/25/00 Date ISURVEYOR 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 supervision, and that the same is true and correct to the best of my belief.
		AUGUST _p 9pe <u>5</u> 2080 Date of Survey Signare and the alt reduction survey
		5412 5412 5412 5412 5412 5412 5412 5412

V

Elevation

APPLICATION FOR DRILLING J. Ray Stewart Conoco Federal, Well No. 1 1980 FNL & 660' FWL, Sec. 20-T25S-R30E Eddy County, New Mexico Lease No.: LC-064894 (Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, J. Ray Stewart, submits the following items of pertinent information in accordance with BLM requirements:

1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.

2. The estimated tops of geologic markers are as follows:

Base of Rustler	690'	Delaware Sand	3,630'
Top of Salt	860'	Upper Ramsey Sand	3,645'
Base of Salt	3,410'	Lower Ramsey Sand	3,681'
Delaware Lime	3,600'	T. D.	3,800'

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Surface water in the Triassic between 80' - 230'. Oil: Possible in the Delaware below 3,600'

Gas: None expected.

4. Proposed Casing Program:

	Ft.	
minimumq75	FRESH	H20

HOLE SIZE	CASING SIZE	WEIGHT	GRADE	JOINT SI	ETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8 "	24.0#	K-55	ST&C	245	Circ. 421 sx "C" cement.
7 7/8"	5 1/2"	15.5#	K-55	ST&C	3795'	161 sx of "C" and additives

5. Proposed Control Equipment: See Exhibit "E":

BOP Program:

A 10" 3000 psi wp Shaffer Type E, double ram BOP, will be installed on the 8 5/8" casing. Casing and BOP will be tested before drilling out with 7 7/8". The BOP will be used as a 2000 psi system and will be tested daily.

6.	Mud Program	r	MUD WEIGHT	VIS.	W/L CONTROL
	<u>Mud Program</u> 0' - 74 5':	Fresh water mud	8.6 - 9.3 ppg	32 - 35	No W/L control
	745' - 3500':	Brine mud:	9.9 - 10.0 ppg	28 - 29	No W/L control
	3500' - 3800':	Brine Mud w/soda	10 - 10.2 ppg.	31 - 36	W/L control 10 - 12 cc +/-

- 7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging, and Coring Program:

Drill Stem Tests: None unless warranted.
Logging: T.D. to Surface: Sonic Gamma Ray log.
Coring: Cut approximately 25 sidewall drill cores between 3,,650' and 3,710' (Approximate pay interval in the Ramsey Sand).

J. Ray Stewart Conoco Federal, Well No. 1 Page 2

.

9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight. Estimated BHP = 1670 psi (evac. hole) with temperature of 98^Ø.

-

- 10. H2S: None expected. None in previously drilled wells.
- 11. Anticipated starting date: Sept 15, 2000. Anticipated completion of drilling operations: Approx. 3 weeks.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

J. RAY STEWART Conoco Federal, Well No. 1 1980' FNL & 660' FWL, Sec. 20-T25S-R30E Eddy County, New Mexico Lease No.: LC-064894 (Development Well)

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, to be followed in rehabilitating the surface environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "B" is a portion of a USGS/BLM Topo map showing the location of the proposed well as staked. The well site location is approximately 37 road miles southeast of Carlsbad, New Mexico. Traveling south from Carlsbad there will be approximately 30 miles of paved highway and 6.9 miles of gravel county and pipeline road.
- B. Directions: Travel south from Carlsbad, NM on U.S. Highway 285 for approximately 27 miles; turn east, south of MM #4, onto County Rd. #725. Continue east for approximately 3.8 miles to a fork in the road. Turn northeast and continue on pipeline road for 6.5 miles to another fork in the road. Turn south on oilfield road for .4 mile to the start of the proposed access road staked on the right side of the road (west) and will run south for approximately 250 feet to the northwest corner of the proposed well site.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The proposed access road will be constructed to a width of 12 feet and will be approximately 250 feet in length. The proposed access road is color coded red on Exhibit "B".
- B. Construction: The proposed and existing access road will be constructed and/or repaired by grading and topping with compacted caliche and will be properly drained.
- C. Turnouts: None required.
- D. Culverts: None required.
- E. Cuts and Fills: Minor cuts of 2 3 foot dunes will be required.
- F. Gates, Cattle guards: None required.
- G. Off Lease R/W: None required.

3. LOCATION OF EXISTING WELLS:

A.. Existing wells within a two mile radius are shown on Exhibit "C".

J. RAY STEWART Conoco Federal, Well No. 1 Page 2

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;

- A. There are no oil production facilities on the lease at this time for J. Ray Stewart...
- B. If the well proves to be commercial, the necessary production facilities, gas production-process equipment and tank battery will be installed on the drilling pad...

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh water that will be obtained from private or commercial sources and will be transported over the existing access roads.

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing the proposed access road and well site pad will be obtained on location, if available, or from a Federal pit to be re-opened in the NW¼SW¼ of Section 17-T25S-R30E. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access road.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock and wildlife from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or a separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste paper, garbage and junk will be contained in trash bins to prevent scattering and will be removed for deposit in an approved sanitary land fill within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

9. WELL SITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area have been staked and flagged 400' X 400'.
- B. Mat Size: 140' X 200', plus 80' X 80' reserve pits. The pits will be on the north.
- C. Cut & Fill: There will be a 3 foot cut on the northeast with fill to the southwest.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in an aesthetically pleasing a condition as possible
- B. Any unguarded pits containing fluids will be fenced until they are filled.,
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled as soon as they are dry enough to work after abandonment.

11. OTHER INFORMATION:

- A. Topography: The proposed well site and access road is located in the uplands east of the Pecos River and 2300 feet south of the El Paso Natural Gas pipe line road. The location and vicinity has a southwesterly slope of 1.5% to 2% from an elevation of 3187'. The surface has 2--4 foot sandy hummocks.
- B. Soil: The topsoil at the well site is a dark colored noncalcareous loamy fine sand of the Tonuco Fine Sands Series. The surface soil is shallow with possible fractured, platy, undurated caliche at a depth of about 15 - 36 inches.
- C. Flora and Fauna: The vegetation cover has a poor to fair grass cover of three-awn, sand dropseed, muhly and other miscellaneous native grasses along with plants of mesquite, yucca, Javelina, broom snake-weed, cacti and miscellaneous weeds and wildflowers. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None in area.
- E. Residences and Other Structures: None, but existing oil field facilities.
- F. Land Use: Cattle grazing.

11. OTHER INFORMATION; cont.....

- G.. Surface Ownership: The proposed well site and access road are on Federal surface.
- H. There is no evidence of archaeological, historical or cultural sites on the proposed 400' X 400' location or access road and pipeline R/W. An archaeological survey is being conducted by Archaeological Survey Consultants, P. O. Box D, Roswell, NM 88202, and their report will be submitted to the appropriate government agencies.

12. OPERATOR'S REPRESENTATIVE:

A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

J. Ray Stewart P. O. Box 31 Pecos, TX 79772 Office Phone: (915) 445-4927

13. CERTIFICATION:

I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by J. Ray Stewart and his contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

August 25, 2000

Amitto

George R. Smith Agent for: J. Ray Stewart





3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 1000 ft Scale: 1 : 25,000 Detail: 13-0 Datum: WGS84

Fly-Fed."	V8-524 326 25	To as P	51216	1 1 1 ⁴ 1 ⁵ 7 5	i 9 59[⊔ 0€⊧*05 105 - 16 105 - 16 2,173 2,173 0 51775	1 1 1 1 1
	U 5247 415 71	Concholtest But vington 18 1 1981 4 1 99 Pogo Prod 762 13 100 1 10 1 2001 767 13 100 1 1 0 1 2001 767 13 100 1 1 0 1 2001 767 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 0 1 0	40 66 4 40 59 5 40 /г 2139 84 /г Морії — Г Н6Р 8 106 76 / Аlamo - Superior 57 то зво с	S.R Boss Thru Line Inc. etai HBP Geisic	arzo darsa Jaoji Jadio (S.R.Bass) (Thru Linetinc, etal) Har Olicie Bass Ent	78.8 78838 314.50 1 (Mobii) 8 -3671 Fortson Oil
2	i M. CANYON		Cancho Res 2 - 1 - 2002 V - 5030 166 52	- 2016 - 2016 - 10 -	3PR Boss Date To all of the POKER LA "Poker Lake Ut"	Bons Entre Particle → 117 KE, UNIT
State	State	State Amoco	State Mabil	5, R 8035	U S (S.R. Bass)	Paner Lease unit
)G Res. 5632 / 1 Santafs Snyder Cource Fig. St	45012 	Сагрет 3 (90) Сагрет 3 (96) 16 7959 136527 16 52 7 16 52 7 16 52 7 16 52 7 16 7959 136527 16 7959 136527 16 7959 136527 16 7959 136527 16 7959 136527 16 7959 16 7959 17 7959 17 7959 17 79	HER Calumna Calumna HAR HER J OG 5725 Statutor Calumna	Sin Dura Thru Ling Inc.,etal Hor Osisis Phr Lone To 400 CA413 di	(5.9, 8 39) (Thru Ling Inc. to 8 Boss Erit. Boss Erit. Boss Erit. Boss All 10 (Thru Ling Inc. to 8) (Boss All 10 (D. 10 10 10	bossEnt MossEnt Lin
	t, Pego	a da a servición de la consecuencia de la consecuencia de la consecuencia de la consecuencia de la consecuencia 2003 - Consecuencia de la consecuencia	Machill A starte of white bar from the Branchoner, to see the only Branchoner, to see the only Cohing the start bar from the Cohing the Cohing the C	B.: (5: 500m) I∎ F4:00.66 A.(A. 80)	JATA BO S11 S DATE: A. U. S.	
EQU ñes. 15303	Anga Prod. draugu i i red. draugu i i red. 1303		Pis Pis	Thropher, HBP Thropher, HBP Call E 2643	2 47(12)	Richerdson () 2 6 (0) - 046 013 - 046 013
14 (MAB Browg H (MADbi) Dorra (m) (Marr Disc) (Marr	4/23/9/19/19/19 2 4/2	SR Boss This Line in clai Bis Line in clai Bi		16 stare 25	156 BoosEnt.erol/2 	Aug 10 / 14 Port face if 1 VD-4106 / 2 0.A2 25 55 / 2 1 Box 1
U \$. ; oG Res 1/1 Poyo 1/2 2 - 1 - 2007 100 33 1 230 92	E0G Res 1/2 P0g0 1/2 12 - 1-2007	e et 1 ¹ Tex Ind Expl Organi	Richardson 3t Tree Statut Conoco Feder	Richardsen Oil G42 Hel Alumo essers Pobercinke United	Richerdian Oil HBP 053815	Richardson O) (1) 0(12) (1) (1) (1) (1) (1) (1) (1) (1
		توريخ 19 مريح 19 مريح 19 مريح 19 مريح 19	doni 20 Conti⊁ea I q-2 I 1003666 I 0/45 C €3 I I	2 L. Horr son etai Locsasis H M Sacciney Pober Lake to 3365 L. 2 Mit US Scimit L. 2 Mit US Scimit L. 2 Mit	22	- MU ²² 23 - Rine 36 Boist
)G Res. .1 2009 00554 9532	Concho Res 6.1. 2007 98821	Yates Drig Co Yates Drig Co 14265 Tex 17 HBU	Centineniel HBP 848838	R-chartyson Oil C - C+(4) 03033	Richardson Qi Color A BP Sun OSJBTS To 655 Alama Pobricala No d 10 3153 To 155	Richardson O- KBP Q63879
26 "' JC Deciment Sup-fea 1 Oct 18 51 Pia C C	25 u 1	74 11 11 20 20 20 	29 u s.	28	Ora Si So 27 IRL Marcisantial I NBP Ora So	- 26 +R; tri ; - k : : : : : : : : : : : : : : : : : : :
evil-esi fay 64 (Exxen) Norcho Ol 21.4	*r30 Southwest Roy V8 0133 K2- Source; Roy Source; Roy Source; Roy Line Source Line Source	(1) 1 3) 1055 Ent 10:003 147000 147000 147000 147000 147000 140	PRBussinc HBU i 2442	Richardson Oil Gi Gi(1) OS935	Richardsan Dil 6 i Siji 05039	Richardson Oi E - 1 - Eitij OSO39
35 Noverst Boyerushy Drews Fed. Del Disc 34	Survey flory J Surthwest 1 Survey And St 1 Survey And	3 7 United i el. 7 United i el. 	32 CANYON, 30	33	34 IR L. Harrison Hal Corrected I I U S	35 B L H. D Fosken 4 Rich & Bass 21 TO 4000 Drive DAIT 5-62 J U 5
EOG R 15. 1. 2002	Santa Fe Ener, Phillips) To 23 23765 Conton Se 1 To 23 23765 Conton Se 1 Prilips Fes I G Barrett	Boss Ent 1000 10	Yutes l'et etal 3 1. 2009 10 00 20 10 00 10 00 1	Late Coll К Сраз 14 54 Vates Per kini I 10 2014 Metricitioney, TP Fed No 3750 10 3750	Тегасо 11 - 1 6(12) 069513 нви 3	nates Pet, etal 5 2004 ∨ 5515 246 ± 2
witzen Gete Eaten St Staty	100711 FE3	Aritiana AN Aritiana AN TC 3485 TC 3485 TC 3485 Aritiana Ari	U S	Con	EXHIBIT "C" J. Ray Stewart loco Federal, Well No. 1	Stat
Entral Central Res. Res. HBP HBF HD33 1039 1C.Hootarmer	L Guistmond Day L Guistmond Day LO 19 LO	bass Emt. 3.1.2009 101035 70.31 71 96.92	Wisters 9 797 193638 Yates.etal 31649 8 1000000000	4500 FNL &	Existing Wells	6 D
	- 12 - Picou - Picou	Yates etal Yates etal 1 1 85 31645	8 <u>2000 p</u>	Notice and Control of	E QU Res. 5 1 2008 Sing ris stern 100 SSP Sing ris stern 145 SP Sing ris stern 145 SP Sing ris stern 15 SP Sing rin stern 15 SP Sing ris stern 15 SP Sing ris stern 15 S	EOG RSS. 6-1 2001 91201 1000

CapStar Drilling, Inc. LOCATION SPECIFICATIONS

in normal



Location Specs

EXHIBIT "D" J. Ray Stewart Conoco Federal, Well No. 1 Pad & Pit Layout

BOP Schematic

