(August 1999)

N.M. Oil Cons. DIV-Dist. 2

1301 W. Grand Avenue

UNITED STATES DEPARTMENT OF THE INTERIORIA, NM 88210 **BUREAU OF LAND MANAGEMENT**

	Expires November 30, 2000	
5, Lease	Serial No.	

MM--063621-A

APPLICATION FOR PERMIT TO D	6. If Indian, Allottee or	Tribe Name				
la. Type of Work: DRILL REENT	7. If Unit or CA Agreem	nent, Name and No.				
1b. Type of Well: Oil Well Gas Well Other	8. Lease Name and Well Sand Tank 17 Federa					
2. Name of Operator		ingle Zone L Multi		9_API Well No.		
Samson Resources				30-015	- 79623	
3a. Address	3b. Phone No	o. (include area code)		10. Field and Pool, or Ex	ploratory	
Samson Plaza-Two W. 2nd St. Tulsa, OK 74103	(918) 591	1531 1939 Br	ed	Sand Tank Morrow	84872	
4. Location of Well (Report location clearly and in accordance with	any State requ		argrow	11. Sec., T., R., M., or Bl	k. and Survey or Area	
At surface 2310' FNL & 660' FEL At proposed prod. zone same	\$6	cretary's Potash	•	Sec. 17-T18S-R30E		
14. Distance in miles and direction from nearest town or post office*				12. County or Parish	13. State	
7 miles southwest of Loco Hills, NM				Eddy	NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660'	16. No. of /	Acres in lease	17. Spacin	g Unit dedicated to this wel	BECEIVED	
18. Distance from proposed location*				BIA Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft.	12,001	•	NM-20	937	NOV 0 4 2004	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3501' GL	22. Approx	imate date work will st	art*	23. Estimated duration 6 weeks	CREATESIZ	
000, 01	24. Atta					
 The following, completed in accordance with the requirements of Onsh Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syster SUPO shall be filed with the appropriate Forest Service Office). 		4. Bond to cover th Item 20 above). 5. Operator certification	e operation ation. pecific info	s unless covered by an exi ormation and/or plans as r	-	
25. Signature	Name	(Printed/Typed)		D	ate	
Kleorgek Amith	Ge	George R. Smith 7/28/04				
Title Agent for Samson Resources						
Approved by (Signature) /S/ Linda S. C. Rundell	Nam	(Printed/ I/BfdLin d	la S. C.	Rundell	NOV 0 1 2004	
Title STATE DIRECTOR	Offic	e NM	STATE	E OFFICE		
Application approval does not warrant or certify that the applicant hold	s legal or equita	hle title to those rights i	n the subject	lease which would entitle t	he applicant to conduct	

*(Instructions on reverse)

Conditions of approval, if any, are attached

operations thereon.

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

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.

APPROVAL SUBJECT TO General requirements and SPECIAL STIPULATIONS ATTACHED

NSL

APPROVAL FOR 1 YEAR

P. 22/23

<u>DISTRICT |</u>
P. O. Box 1980
Hoobs, NM 88241-1980

State of New Mexico Minerals, and Natural Resources D :ument

Instructions on both

DISTRICT II P. O. Drower CD Artesia, NM &&211-0719

DISTRICT III 1000 Rio Brozos Rd. Aztec, NM 87410

OIL CONSERVATION DIVISION P. O. Box 2086 Santa Fe, New Mexico 87504-2088

Submit to the Appropriate District Office State Lease - 4 appies Fee Lease - 3 appies

AMENDED REPORT

DISTRICT IV

API Number			Peel Code	1 Pec	Netz	ggi sir - de ambite e e - e Philip e dan perm ar establisha in - e			
			84872/84874		Sand Tani	Morrow/St	rawn		
Property Cod		* Property N		ANUZ ZE	יי בכטבט	AL COM		Wall Number	
	7377	* Operator N		TANK '17' FEDERAL COM 1 TON Resource 1 Televation					
20165		operator n	Orig)ENRO			MPANY		3501	•
20103		<u></u>					andra and the state of the stat		*********
					LOCATION		al Park trans the	Fact West Up a	Canal
er lot po.	Section 17	Township	Range 30 EAST, N.M.P.M		2310'	North/South lin	980,	EAST	County EDDY
					L		1		
			OM HOLE LOCAT						
, or lot no.	Section	qldepmoT	Range	lot ide	fret from the	North/South lin	e Peet from the	Basi/West line	Count
Dedicated Ac		lab as ledlif	" Coaselidation Code	17 Order	No.	<u> </u>			L
/2 320		TRE OL MILLE	Consendation code	1.0101					
/ 6 320	NO 411	VAIDLE M	ELL BE ASSIGNED	ro TUIS	COMPLETIO	N UNTIL ALL	INTERESTS HA	VE BEEN	
			OR A NON-STAND						
				XXXXXX	XXXXXXXXXX	KKREKKKKK K	ODERATO	D GEDWIETC	AMION
,		İ			!		1 1	R CERTIFIC	
		1	Ğ		1		contained her	rein is true and	comple
			Ğ		1		to the best o	I sys knowledge	and belie
			0				Chatare	Vion.	
			*			}	Cinted Name		سيد
		į	8			2310"	Printed Name Betty Gi	Man In Inc.	
				فعيدا فيافه ساد		{	Tide	y Analyst	
		6 6	ä				Date	y Allasyse	
			5		!		3/26/9	17	
			0						·
		į	Ž				SURVEYO	R CERTIFIC	MOITE
			8		į	\$ 650°	I hereby	certify that	lhe :we
				Mr	.			nown on this p n field notes	
		İ	ğ		1		Surveys m	ade by me o	r und
- ³ 4.		1	2		i I	:	my super	vision, and l	hot th
1		1	ă		i I	<i>;</i> *	best of m	y belief.	
			8						- 13 11 11 11 11 11 11 11 11 11 11 11 11
1			ğ				Dote of Surg	ŘĈН 3. 1997	4/1
		į	· 3		į		Signature 'an	d Scot of	
	•						Professional	34,14,5	
		.*	×		. !			(12133)	
			5					\	S.
		i	8					دان وحسر وند	THE .
*		,	: %		1		Scrawy	Work State	W- ;
1		į	Z		j		Carundata N		13 19 9 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-		:			;		ROGER M.	Robbins 🕆 P.S	i. #12

	0'-SURFACE							
44	((((()()()))	652'	113/4	" 42±	t H40	57C		
1/1/81	102'-419'		CIA	con	7 70	SURFA	CE 4805A0	KS
		U						
1/		<i>{</i> //						
			,				· · · ·	
		9						
		62					<u> </u>	•
ŀ		<i>(1)</i>						
7	11111111111			4 .				
	[[[]]]	(3A07'	85/8	3 32	# 53	5 577	- 	
13	960' - 3663'		CI	rc ca	my To	s sull	ACE 1300 =	SACKS
								•
4	550'-4014'	[•
		5					•	
		}		•	•			
		}						•
		6				,		
		}					•	
		{					•	
1	•	\ 7		·				
		{						
1		{					•	
	,							
•		g .	•	•				•
		}					grot.	OGIC MARKERS
/		. ·					<u></u>	
4	(66/ 1/8/6/	3. 9				•	HAME	MEAS, DEPTH
9	158'-8522'	{				-	· ····	
,		.					Queen	2503 2940
Z	1111111111	· 19				. !	Grayburg San Andres	3842
4		4					Delaware Sd Bone Spring	3663 4560
14	X125-9889				•		Wolfcamp	9058
V.	/////////	1 11					Strawn Atoka	10435 10713
4	111/6/6/	4				;	Morrow Clastic	11250
Y	0,714-11,250	}					Lower Morrow Miss. Chester	11537 11920
ŀ		TD 124	221	7.00		•	.mgg. Allegrer	11320

APPLICATION FOR DRILLING

SAMSON RESOURCES CO.

Sand Tank 17 Federal Com., Well No. 1 (Re-entry) 2310' FNL & 660' FEL, Sec. 17-T18S-R30E Eddy County, New Mexico

Lease No.: NM-063621-A (Development Well Re-entry)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Samson Resources Co. 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:

Queen	2,503'	Strawn	10,435'
Grayburg	2,940'	Atoka	10,713'
San Andres	3,842'	Morrow Clastics	11,250'
Delaware Sand	3,663'	Lower Morrow	11,537
Bone Spring	4,560'	Mississippi Chester	11,920'
Wolfcamp	9,058'	T.D.	12,001'

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

Water: Surface water between 100' - 300'.

Oil: Possible in the Delaware

Gas Possible in the Morrow below 11,250'.

4. Proposed Casing Program:

ро.		~B				
HOLE SIZE	CASING SIZE	WEIGHT	GRADE	JOINT	SETTING DEPTH	QUANTITY OF CEMENT
The follow	ing casing curr	ently exist	s in the h	ole:		
14 3/4"	11 3/4"	42.0#	H-40	ST&C	0" - 652'	Circ. 480 sx.
11"	8 5/8"	32.0#	J-55	ST&C	0' - 3,907'	Circ. 1520 sx
After drilling	ng cement plug	gs to T.D.	will instal	ll the follo	owing:	
7 7/8"	5 1/2"	17.0#	P-110	LT&C	0' - 12,001'	735 sx , TOC 7,500'

5. Minimum Specifications for Pressure Control Equipment:

A 11" 5000 psi WP Shaffer, LWS Double Gate BOP will be installed on the 13 3/8" and operated as a 3000 psi system. The casing and BOP will be tested as per Onshore Oil & Gas Order #2. Casing and BOP will be tested before drilling out with the 7 7/8".

6. 1	MUD PROGRAM:	MUD WEIGHT	VIS.	W/L CONTROL
(0' - 12,000': Brine mud w/polymer:	10.0 – 11.0 ppg	32 - 36	W/L control <12cc @10,000'

7. Auxiliary Equipment: Blowout Preventer, flow sensors and stabbing valve.

SAMSON RESOURCES CO.

Sand Tank 17 Federal Com., Well No. 1 (Re-entry) Page 2

8. Testing, Logging, and Coring Program:

Drill Stem Tests: None unless conditions warrant.

Logging: 3,907' to T.D.: None unless warranted. Will use old original logs.

Coring: Rotary sidewall if dictated by logs.

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 evacuated BHP = 5280 psi and surface pressure of 2640 psi with a temperature of 180°.

10. H₂S: None expected. None in existing wells in close vicinity, but the Mud Log Unit will be cautioned to use a gas trap to detect H₂S and if any is detected the mud weight will be increased along with H₂S inhibitors sufficient to control the gas.

11. Anticipated starting date: September 15, 2004.

Anticipated completion of drilling operations: Approximately 4 weeks.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

SAMSON RESOURCES

Sand Tank 17 Federal Com., Well No. 1 (re-entry)
2310' FNL & 660' FEL, Sec. 17-R18S-R30E
Eddy County, New Mexico
Lease No.: LC-063621-A
(Development Well Re-entry)

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 "A" is a portion of a USGS/BLM Topo map showing the location of the proposed well as staked. The well site location is approximately 7.4 road miles southwest of Loco Hills, New Mexico. Traveling southwest from Loco Hills there will be approximately 3.0 miles of paved highway and 4.4 miles of gravel county and oilfield roads.
- B. Directions: Travel east from Artesia, NM on U.S. Highway 82 for approximately 25 miles to County Rd. #217 on the west side of Loco Hills. NM. Turn southwest on CR #217 for 3 miles to CR #216. Turn south on CR #216 for 2.2 miles to the end of CR #216. Turn east for 1.9 miles, then south for .3 mile to the start of the access road on the right (west). The ripped access road runs west for 200 feet to the SE corner of the extant well site.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The existing (ripped) access road is approximately 200 feet in length and 12 foot in width. The access road is color coded red on Exhibit "A".
- B. Construction: The existing access road will be reconstructed by grading and topping with compacted caliche and will be properly drained.
- C. Turnouts: None required.
- D. Culverts: None required.
- E. Cuts and Fills: None 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".

SAMSON RESOURCES Sand Tank 17 Federal Com., Well No. 1 Page 2

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. Samson Resources has no production facilities on the lease at this time.
- B. If the well proves to be commercial, the necessary production facilities, gas production-process equipment and tank battery, if required, will be installed on the drilling pad. A 3" steel 3200 psi gas flow line, with maximum of 1000 psi operating pressures, will be buried and will run to the Duke Energy gas pipeline that parallels the south side of the well 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 the access road and well site pad will be obtained on location, if available, or from an approved Federal pit located in the SWNW of Sec. 4-T18-R30E. No surface materials will be disturbed except those necessary for actual grading and construction 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 landfill within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

SAMSON RESOURCES Sand Tank 17 Federal Com., Well No. 1 Page 3

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 has been staked and flagged, 500' X 500'.
- B. Mat Size: 340' X 225', plus 175' X 175' mud pits. The pits will be on the north.
- C. Cut & Fill: None required. Level pad back to original.
- D. The surface will be topped with compacted caliche and the mud 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 required 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 northwest of Loco Hills area. The location has a northwesterly slope of 1.9% from an elevation of 3501'.
- B. Soil: The topsoil on the well site and access road is yellowish-red colored fine sand. The soil is of the Kermit Berino Fine Sands Soils Assn.
- C. Flora and Fauna: The vegetation at the well site is a sparse to fair grass cover of three-awn, dropseed, burrograss, grama, bluestem and other miscellaneous native grasses along with plants of mesquite, yucca, sage, shinnery oak brush, broomweed, Russian thistle, 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.
- E. Residences and Other Structures: None, but existing oil field facilities.
- F. Land Use: Cattle grazing.
- 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 in the area. An archaeological survey was conducted for the previous APD submitted in April, 1997 and their report was submitted to the appropriate government agencies.

SAMSON RESOURCES Sand Tank 17 Federal Com., Well No. 1 Page 4

12. OPERATOR'S REPRESENTATIVE:

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

Todd Wiley Samson Resources Samson Plaza-Two West Second St. Tulsa, OK 74103-3103 Office Phone: (918) 591-1531

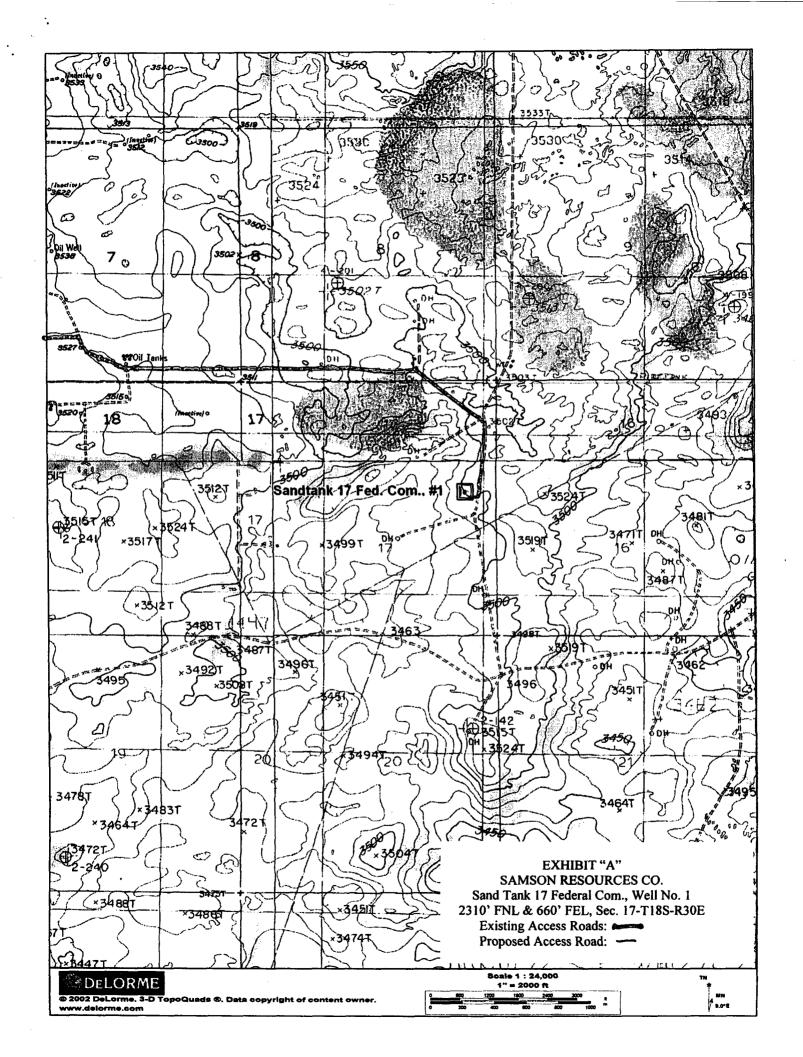
13. CERTIFICATION:

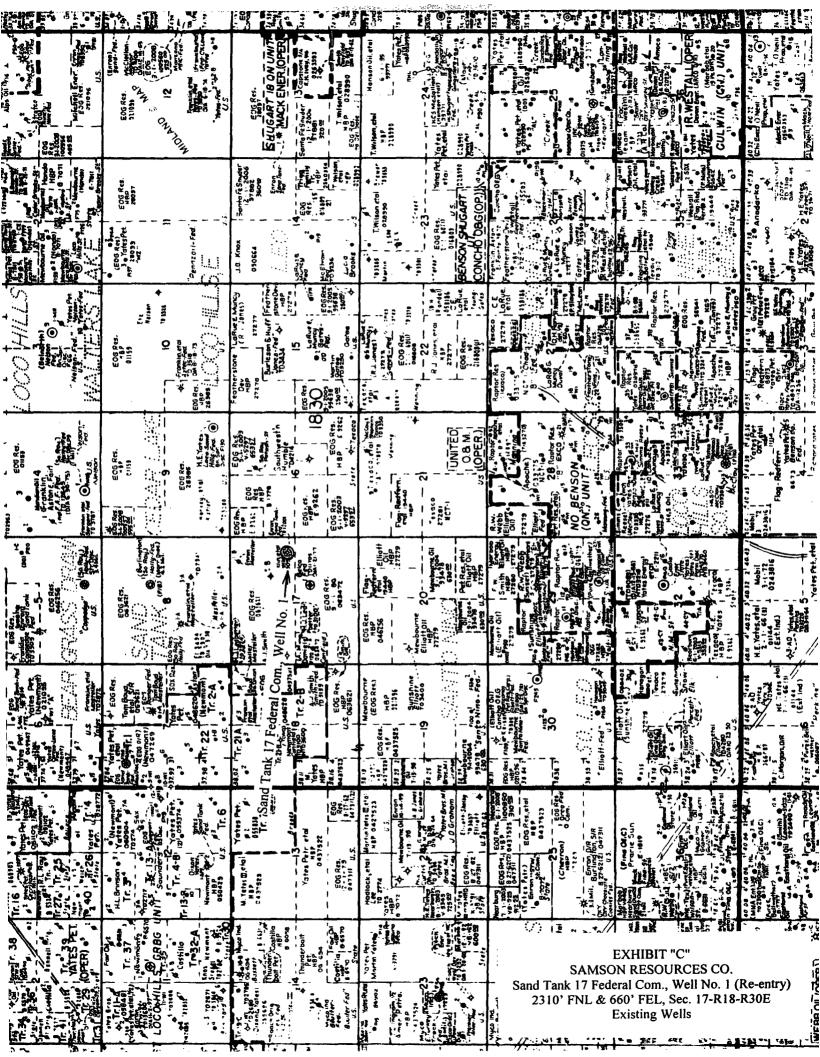
I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Samson Resources and its 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.

July 28 2004

George R. Smith

Agent for: Samson Resources





86-00:(58-mm) NOTTARUO * CEED.432594 TO:151-43259993 * DUIS.7534 * CEID.432599993 * DURATION (mm-55):00-56

N.D.U.\$.A.

RIG 329

LAYOUT WITH TOPDRIVE

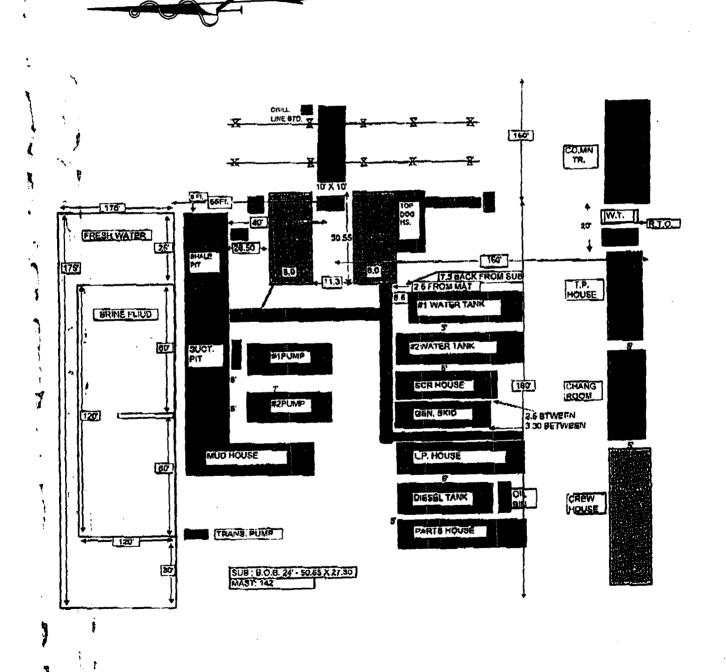
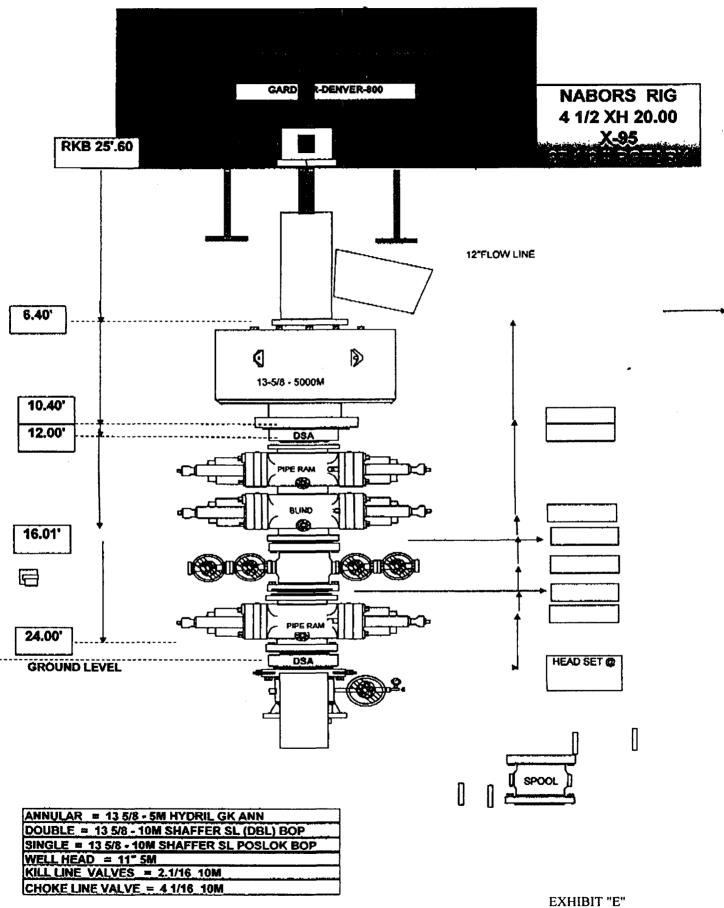


EXHIBIT "D"

SAMSON RESOURCES CO.

Sand Tank 17 Federal Com., Well No. 1 (Re-entry)

Pad & Pit Layout



SAMSON RESOURCES CO.
Sand Tank 17 Federal Com., Well No. I (Re-entry)
BOP Specifications

N.D.U.S.A.

Rig 329

MANIFOLD SETUP

NUEVO ENERGY

