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June 2, 1995

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STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, New Mexico 87504

Attention: Messrs. Michael E. Stogner

David R. Catanach

RE: Application for the June 29, 1995 examiner hearing concerning a

project to drill a horizontal lateral section into the Gallup formation

Jicarilla "C" No. 35, Surf Loc: 1850' FSL, 1190' FWL, Unit L Sec. 21-T25N-R5W, West Lindrith Gallup-Dakota Oil Pool

Rio Arriba County, New Mexico

Gentlemen:

Texaco Exploration and Production Inc. seeks approval to drill a short radius horizontal re-entry into the Gallup formation. We are requesting that this project be added to the June 29, 1995 examiner hearing docket. We intend to drain the Gallup portion of the subject pool in two adjacent 160 acre spacing units with the proposed re-entry. Therefore, we are also requesting an assignment of allowable based on a non standard or double proration unit.

We plan to mill out a section of casing, sidetrack, drill and complete a single 2500' short radius horizontal section into the Gallup formation. Attachment IV A and IV B, respectively are wellbore diagrams for the current and proposed completions. The horizontal leg will be in a eastward direction staying at least 790' from the northern boundary of the spacing unit (see attachment III). We expect to recover additional Gallup reserves in the adjacent undeveloped W. Lindrith Gallup Dakota 160 acre spacing unit (SE quarter of section 21, T25N-R5W). These reserves would normally be recovered by an additional vertical well. Both spacing units are included in the Texaco Exploration and Producing Inc. operated Jicarilla "C" lease (ownership is common).

Also attached are copies of signed certified mail return receipt cards (or signed waivers) from the operators of offset spacing units who have received written notification of our application for this horizontal re-entry project.

Your attention to this matter is greatly appreciated. If you have any questions concerning this matter please contact me at 505-325-4397, ext. 15.

Sincerely,

Rached Hindi Senior Engineer

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MRR/s, Attachments, cc: NMOCD-Aztec

LIST OF ATTACHMENTS

- I. DRILLING PROCEDURE
- II. BASE MAP
- III. N.M.O.C.D. WELL LOCATION AND ACREAGE DEDICATION PLAT FORM C-102
- IV. A. WELLBORE DIAGRAM EXISTING CONDITION
 - B. WELLBORE DIAGRAM PROPOSED CONDITION
- V. OFFSET OPERATOR PLAT
- VI. OFFSET OPERATOR ADDRESS LIST
- VII. GAMMA RAY / LITHO-DENSITY LOG OF HORIZONTAL INTERVAL
- VIII. RETURN REGISTERED RECEIPTS FROM OFFSET OPERATORS

Attachment I

JICARILLA "C" No. 35 HORIZONTAL SINGLE LATERAL REENTRY

The subject well is a producing well. It is to be reentered and a single horizontal lateral is to be drilled in the Gallup formation. The existing perforations will be squeeze cemented and a 40' section is to be milled in the casing. A short radius horizontal lateral will be drilled in the west direction approximately 2500' long. The well will be acidized using coiled tubing, if necessary, and then production tested.

WELL PREPARATION:

- 1) MIRUSU. Nipple up 3M BOPE.
- 2) Kill well with produced water.
- 3) TOH and lay down 2-3/8" production tubing.
- 4) TIH with 4-3/4" bit on 2-7/8" work string and clean out to PBTD. TOH.

SQUEEZE EXISTING PERFORATIONS: (A CIBP may be set instead of squeezing)

- 5) TIH with cement retainer on tubing and set above perfs (7028'-7090') at 7000'.
- Space out tubing in neutral position and test tubing to 3000 psi. Rig up squeeze manifold. Establish rate into perforations (2 BPM), note pump in pressure. Pressure up annulus to 1000 psi, monitor casing during job.
- 7) Cement squeeze with 150 sx Class "G" with 0.2% D156 and 0.2% D65 to obtain a fluid loss of 200-300 cc/30 min. (determine by lab testing) followed by 100 sx Class "G" neat, mixed at 15.8 ppg. Minimum pump time 150 minutes at 175°F.
- a) Spot cement to end of tubing.
 - b) Sting into retainer.
 - c) When cement reaches perforations, slow rate to 1/2 BPM
 - d) Maximum squeeze pressure 3000 psi.
 - e) Displace cement to retainer.
- 9) Pull out of retainer, reverse out cement and check for flow. Pull tubing to 4000' and shutin for 24 hours.
- 10) Shut in backside and test casing to 500 psi.

Jicarilla "C" No. 35 Horizontal Reentry Rio Arriba County, New Mexico Drilling & Completion Procedure

MILL 5 1/2" CASING:

11) Circulate hole with mud for milling. TOH with tubing and bit.

MUD: Starch

Volume: $(6000^{\circ} * .0238 \text{ bbl/ft} = 143 \text{ bbls} + 200 \text{ bbls for pit} = 343 \text{ bbls})$

Weight: 8.5 - 8.7 Funnel Visc.: 75-80

12) If casing collar log is not available in Area, Run GR-CCL to determine position of collars. (Window may be moved +/- 10 to avoid milling a casing collar).

TIH with mill for 5 1/2" casing on 2 7/8" workstring. Mill 40' section of casing from +/-5960' - 6000'. While milling, run paper sweeps in the mud to ensure the hole is clean. Place ditch magnets in return lines to catch metal cuttings. Any time a trip is made, make sure the hole is clean and the blades are retracted.

14) TOH with mill.

SPOT KICK OFF PLUG:

- TIH with diverter tool and +/- 400' 2 3/8" (2 1/16" if available) on 2 7/8" work string to 6010'. Circulate Starch mud out of hole. Pull up hole so diverter tool is across milled section and wash section. TIH to PBTD.
- Spot 50 sx Class "G" mixed at 17.5 PPG from 5760' to +/- 6010' (200' above window). Batch mix cement. Pull out of cement plug slow to approximately 4000'. **Do not reverse circulate**. Shut in for 24 hours minimum. TOH with tubing.
- 17) TIH with 4 3/4" bit and dress off cement to the KOP at 5970'. TOH with 4 3/4" bit. Cement must drill 1.5-2 min/ft with 10 pts and 50 RPM to insure the plug is hard enough for kickoff.
- 18) Circulate hole clean.

Jicarilla "C" No. 35 Horizontal Reentry Rio Arriba County, New Mexico Drilling & Completion Procedure

DRILL CURVE SECTION (WEST DIRECTION):

19) Displace hole with starch mud. TOH with bit.

MUD: Starch

Volume: (6000' * .0238 bbl/ft + 200 bbls for pit + 2500' * .0219 bbl/ft)

(143 bbls + 200 bbls + 55 bbls = 398 bbls)

Weight: 8.7 Funel Visc.: 35-40

20) Pick up kick-off motor and test on surface. TIH with kick-off BHA s follows:

4 3/4" bit.

Kick-off motor (with 2.5-3.0° bent sub)

Float/ orientation sub.

1 jt 2 7/8" flexible monel collars.

Enough P-110 tubing to reach from KOP to end of planned horizontal wellbore.

Drill collars

2 7/8", Grade G, AOH DP. to surface.

- 21) TIH to **KOP** (5970'). Run GYRO and Orient motor to west direction. Break circulation and establish off bottom pressure at operating flow rates. Planned build rate is 57°/100' with a radius of 100'.
- Slowly lower motor to bottom, adjusting toolface as necessary to compensate for reactive torque. Drill approximately 20' of build section with kick-off motor. TOH with kick-off motor and lay down. Pick up build motor (3 restricted articulations to maintain build rates below 70°/100') and TIH. Continue drilling curve while maintaining proper toolface orientation. Drill curve section to **target depth of 6070' TVD** for start of horizontal.
- 23) Circulate hole clean. TOH with curve motor.

DRILL HORIZONTAL LATERAL (WEST DIRECTION):

24) TIH with lateral motor BHA. (Same as step 22 but motor has lower build rate.)

Jicarilla "C" No. 35 Horizontal Reentry Rio Arriba County, New Mexico Drilling & Completion Procedure

- Drill the horizontal lateral (2500') adjusting tool face as needed to the target. The end of the horizontal target depth is 6070' TVD. There is a window around the target line which the well path is to stay within. (see attached well plan for well path and hardlines). While drilling the lateral section, run sweeps of 5 bbls. water, 3 bbls prehydrated gel (90+ viscosity), and 1 gallon polymer.
- 26) At TD circulate hole clean with mud. TOH. Release directional equipment.

COMPLETION:

- 27) TIH with muleshoe, 6 jts P-110 tbg and 5-1/2" casing on 2 7/8" tubing. Space out so P-110 tubing is across curve section and packer is in the casing. Set the packer.
- 28) Rig up coiled tubing unit. TIH with "PERFCLEAN" jetting sub on 1 1/2" coiled tubing to TD. Circulate mud out of hole
- Wash 1st lateral open hole with 25,000 gallons 15% NEFE. Rate 2 BPM. POH with coiled tubing while acidizing so entire open hole is stimulated.
- 30) Displace acid to the end of the tubing. SI for 15 min.
- 31) Flow well until dead. TOH with coiled tubing.
- 32) TOH with workstring. TIH with production equipment and test well as needed.

(36E) JICARILLA LEASES B & C LOCATIONS FOR 1995 DRILLING PROGRAM SAN JUAN BASIN, NEW MEXICO Part of the latest of the late Gallup/Dakota New Well Location
 Dakota New Well Location PC/Chacra New Well Location Jicarilla (35 TEXACO U.S.A. Gallup New Well Location A. CANTAROLL DOOR ROOM SCOT 36.400 -2900-28588. の経験を表生 DUTION PECENTES CHOLD INCOME IN OUR BEAUTIONS IN OUR BEAU 华 P. R. P. PROLIZED PODEOUR 2 A MADDOCULAR A MAIN Septembra Ba # ** Oir 35 26 * , o . -30000 ATICH & PROD PAN AMERICAN PET ALCOHOLOGY COM TOUR DE PROD

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AHachment III

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-102 Revised February 10,199 Instructions on back Submit to Appropriate District Offic State Lease - 4 Copies

Fee Lease - 3 Copie

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 3003923433	Pool Code 39189	³ Pool Name LINDRITH GALLUP-DAKOTA, WEST			
4 Property Code 11170		⁵ Property Name JICARILLA C			
OGRID Number 022364	8 Oper TEXACO EXPLORATI	⁹ Elevation 6631' KB			

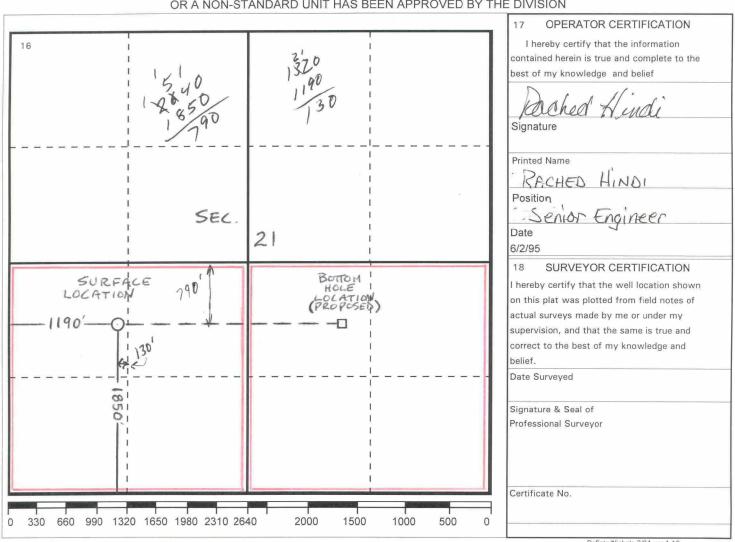
10 Surface Location

UI or lot no.	Section	Township	Range	Lot.ldn	Feet From The	North/South Line	Feet From The	East/West Line	County
L	21	25N	5W		1850	SOUTH	1190	WEST	RIO ARRIBA

Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.ldn	Feet From	The	North/South Line	Feet From The	East/West Line	County
12 Dedicated	ated Acre 13 Joint or Infill 14 Consolidation Code No		n Code	¹⁵ Order No.						

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



DeSoto/Nichols 3/94 ver 1.10

5/22/95

8-5/8", 24#, K-55 CSG



JICARILLA C No. 35 CURRENT COMPLETION

LOCATION:

1850' FSL & 1190' FWL Sec. 21, T25N, R5W Rio Arriba, NM

SPUD DATE: 4/19/84 RECOMPL. DATE: 6/12/84

ELEVATION: 6631' KB

6819' GR

FORMATION TOPS:

Ojo Alamo 2154' (+4477')
Kirtiand 2324' (+4307')
Fruitland 2462' (+4169')
Pictured Cliffs 2692' (+3939')
Chacra 3560' (+3071')
Mesaverde 4337' (+2294')
Gallup 6048' (+583')
Greenhorn 6807' (-176)
Graneros 6874' (-243)
Dakota 6906' (-275)

DAKOTA PERFS:

7028'-37', 7042'-46' 7066'-71', 7080'-90' 1 SPF, 0.40" dia. Holes Frac w/ 56,700 Gal. 70 Q Foam & 53,500# 20-40 Brady Sand

BD w/ 1400 Gal. 15% HCl w/ 500 SCF/BBL N2

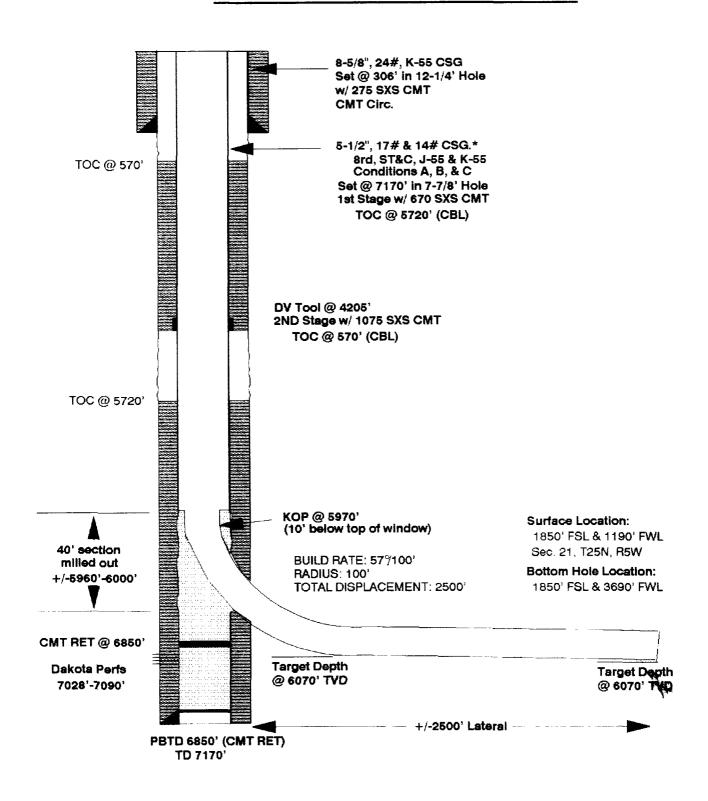
Set @ 306' In 12-1/4' Hole w/ 275 SXS CMT CMT Circ. TOC @ 570' (CBL) DV Tool @ 4205 2nd Stage w/ 1075 SXS CMT TOC @ 570' (CBL) TOC @ 5720 (CBL) 2-3/8" 4.7#, J-55 TBG @ 7058' 5-1/2", 17# & 14#, J-55 CSG* 8rd ST&C, J-55 & K-55 Conditions A, B, & C Set @ 7170' in 7-7/8" Hole 1st Stage w/ 670 SXS CMT TOC @ 5720' (CBL)

PBTD - 7130'

5/25/95



JICARILLA C No. 35 PROPOSED SIDETRACK COMPLETION

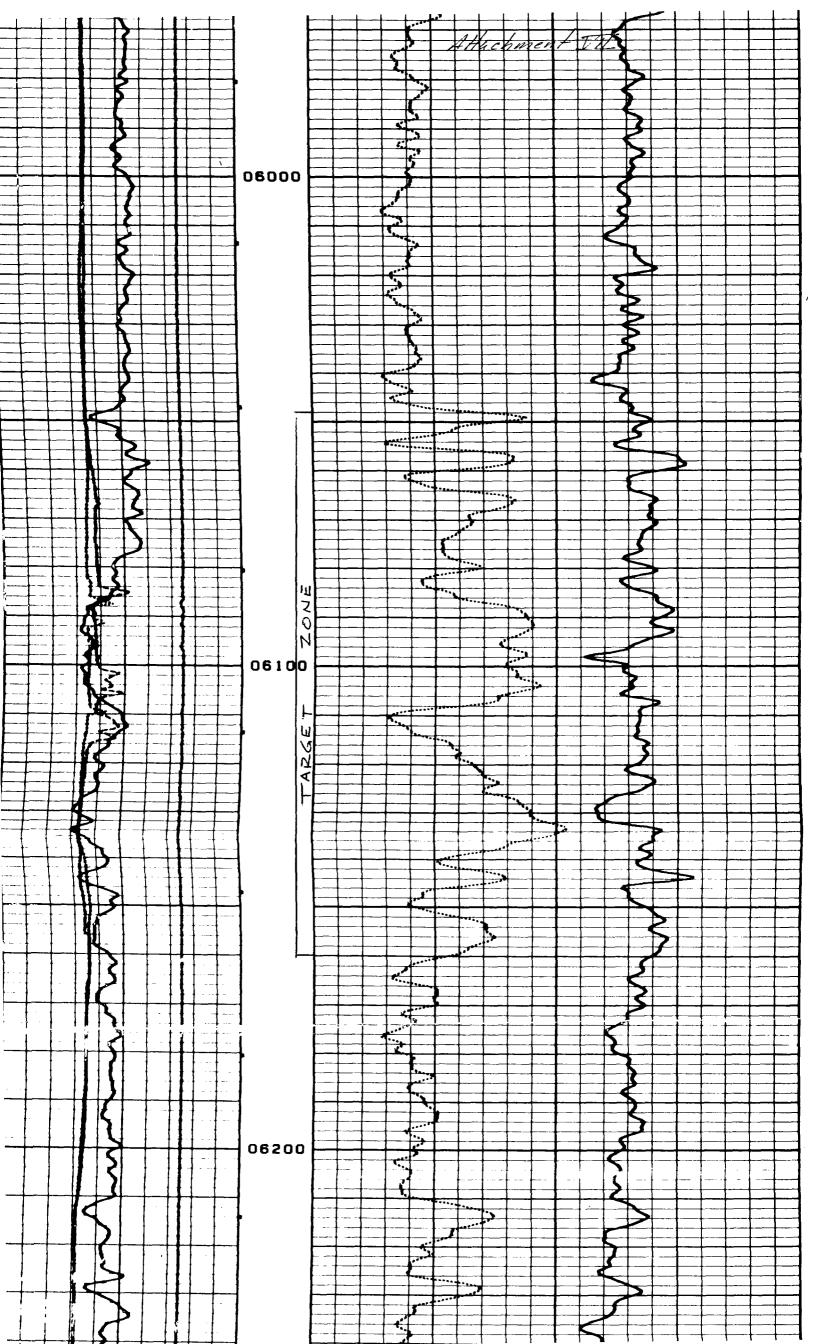


TEXACO DENVER DIVISION DENVER, COLORADO WEST LINDRITH GALLUP/DAKOTA 160 AC. SPACING UNIT $\bigoplus_{}^{TEXACO}$ 15 AMERADA HESS AMERADA HESS TEXACO TEXACO M 05 TEXACO TEXACO K 16 11 SUBJECT WELL TEXACO Z TEXACO 25 E 20====

Attachment VI

OFFSET OPERATORS JICARILLA C #35 WEST LINDRITH GALLUP/DAKOTA

Amerada Hess Corporation P.O. Box 2040 Tulsa, OK 74102 (918)599-4252





Care 11326

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, New Mexico 87504

Attention: Messrs. Michael E. Stogner

David R. Catanach

RE: Application for the June 29, 1995 examiner hearing concerning a

project to drill a horizontal lateral section into the Gallup formation

Jicarilla "C" No. 35, Surf Loc: 1850' FSL, 1190' FWL, Unit L Sec. 21-T25N-R5W, West Lindrith Gallup-Dakota Oil Pool

Rio Arriba County, New Mexico

Gentlemen:

Please accept the attached copy of the Certified Mail Return receipt card from Amerada Hess, showing written notification of our application for a horizontal re-entry. Amerada Hess is the sole offset operator to the subject well. This should be included as attachment VIII in our application, which you should have already received.

Your attention to this matter is greatly appreciated. If you have any questions concerning this matter please contact me at 505-325-4397, ext. 19.

Sincerely,

Mark R. Reinhold Production Engineer

MRR/s, Attachments, cc: NMOCD-Aztec

Mach & Sinhold

Stachment VIII

	AND
SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of this form so the return this card to you. Attach this form to the front of the mailpiece, or on the back idoes not permit. Write "Return Receipt Requested" on the mailpiece below the art The Return Receipt will show to whom the article was delivered a delivered.	if space 1. Addressee's Address
3. Article Addressed to: AMERADA HESS CORPORATION P.O. BOX 2040 TULSA, OK 74102	4a. Article Number Z 175 054 502 4b. Service Type Registered Insured Certified COD Express Mail Retain Receipt for interchand Contact the contact
5. Signature (Addressee) 6. Signature (Agent) PS Form 3811, December 1991 #U.S. GPO: 1993—352	8. Addressee's diffes Only it requested and fee is pail 1.