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DEPARTMENT OF THE INTERIOR         GEOLOGICAL SURVEY         INTEGUINE FOR PERMIT DO BILL, DEEPEN, OR PLUG BACK         INTEGUINE FOR PERMIT DO BILL, DEEPEN, OR PLUG BACK         INTEGUINE FOR PERMIT DO BILL, DEEPEN, OR PLUG BACK         INTEGUINE FOR DERING DEEPEN         INTEGUINE FOR DERING PENET         INTEGUINE FOR DERING PENET         INTEGUINE FOR DERING PENET         INTEGUINE FOR DERING PENET         <		UNIT	ED STATES				•
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APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK       6. BY NOLS, ALLOYTE OR THERE SAME         Is TITE OF WORK       MECHAND       PLUG BACK       7. CNT AGREEMENT NAME         Is TITE OF WORK       WRITE       SEP 1 2 1980       MILL X       DEEPEN       PLUG BACK       7. CNT AGREEMENT NAME         Is TITE OF WORK       WRITE X       OFTIGE       PLUG BACK       7. CNT AGREEMENT NAME       7. CNT AGREEMENT NAME         Is TITE OF WORK       WRITE X       OFTIGE       OFTIGE       7. CNT AGREEMENT NAME       7. CNT AGREEMENT NAME         Is A CONSTRATOR       P. O. BOX 1518 ROSWELL, NEW MEXICO SE201 RECEIVED IN TOTAGE AGREEMENT NAME       10. THE OR AGREEMENT       10. THE OR AGREEMENT         A LONGREEM OF OFTIGE AGREEMENT OF THE OFTIGE AGREEMENT NAME       SEP 3 1980       11. SO OFTIGE AGREEMENT       10. THE OR AGREEMENT         Same       US STATE OFTIGE AGREEMENT OF AGREEMENT OF AGREEMENT NAME       SEC 3.4, T155, R27E       11. COUNT OF THE AGREEMENT       11. SO OFTIGE AGREEMENT         Same       Same       SAME OF THE AGREEMENT OF THE AGREEMENT OF AGREEMENT NAME       Sec 3.4, T155, R27E       11. COUNT OF THE AGREEMENT         Same       SAME OF THE AGREEMENT       SAME OF THE AGREEMENT       Sec 3.4, T155, R27E       11. SO OFTIGE AGREEMENT         Same       Same       Same       Same       Same       Sec 3.4, T155, R27E							and Smith no.
Receive work     Receive of the state of the					PACK		OR TRIBE NAME
DRILL IN DEEPEN DEEPEN DEEPEN TO PLUG BACK       7. FAM Addresses Sale         Difference       With Deepen PLUG BACK       7. FAM Addresses Sale         Difference       With Deepen PLUG BACK       7. FAM Addresses Sale         Dead & Stevens, Inc.       O. C. D.         AMTESIA, OFFICE       AMTESIA, OFFICE       10. FREMARS Sale         P. O. Box 1518       Roswell, New Mexico 88201       RECEIVED U.       1         Diverse of vertice       SEP 3 1980       1. Back Sale       1         Diverse of vertice       SEP 3 1980       1. Back Sale       1. Back Sale         At proposed pred. and       1. Back Sale       1. Back Sale       1. Back Sale         Approximately 10 miles east of Lake Arthur AMESIA Sale       1. Back Sale       1. Back Sale       1. Back Sale         Bis unstack find the flags       660'       1. Back Sale       1. Back Sale       1. Back Sale         Charles for and Sale       1. Back Sale       1. Back Sale       1. Back Sale       1. Back Sale         Approximately 10 miles east of Lake Arthur Amesia back Sale       1. Back Sale       1. Back Sale       1. Back Sale         Bis Back For Mark Sale       1. Back Sale       1. Back Sale       1. Back Sale       1. Back Sale         Bis Back For Mark Sale       1. Back Sale       1. Back Sale	APPLICATION	FOR PERMIT	O DRILL, DEEPE	IN, OR PLUC	J DACK	-	
2. NAME OF OFFICATION       Pead & Stevens, Inc.       O. C. D.         Pead & Stevens, Inc.       ARTESIA, OFFICE         P. O. Box 1518       Roswell, New Mexico SS201       RECEIVED         4. investes of or Wall, (Report location clearly and in accordance with any State requirements);       1         660'       FSL and 1980'       FEL       SEP 3 1980         At proposed prod. zone       U.S. HEDULGICAL SURVEY       Sec. 34, 7155, R27E         12. contract of wells, Hest and Diffection From NEAREST TOWS OR POST OFFICE AND CENERATION FOR AREAST TOWS OR POST OFFICE AND CENERATING PROGRAM         Approximately 10 miles east of Lake Arthur, MESSIA, CENERATIONS OF CAREST AND CENERATING PROGRAM       10. NOTARY OR CAREST TOWS OR POST OFFICE AND CENERATING PROGRAM         10. Interfere Program Form Form Form Form Form Form Form For	DRI	L X	DEEPEN	PLUG I	BACK 🗌	7. UNIT AGREEMENT N	AME
Average of outparticle       Press of outparticle       O. C. D.       Inc.       O. C. D.         ARTESIA, OFFICE       P. O. Box 1518       Rossvell, New Mexico S8201       RECEIVED       1         Construction of watch (Report location clearly and in accordance with any state requirements")       0       Press of watch (Report location clearly and in accordance with any state requirements")       1         Construction of watch (Report location clearly and in accordance with any state requirements")       SEP 3 1980       1         Same       U. S. HEULGLICK SURVEY       Sec. 34, T155, R27E         Same       U. S. HEULGLICK SURVEY       Sec. 34, T155, R27E         Convertion requirements       10       miles east of Lake Arthur (MESIA, GATW MEXICS)         Convertion requirements       660*       16.00       16.00         Convertion requirements       660*       16.00       10         Convertion requirements       660*       100       10       Notate Convertion requirements         Convertion requirements       660*       100       10       Notate Convertion requirements         Convertion requirements       660*       100       100       Notate Convertion requirements         Convertion requirements       660*       100       100       Notate Convertion requirements         Converti	OIL GA		<b>1 2 1980</b>			8. FARM OR LEASE NAM	4 E
Attendes       ARTESIA. OFFICE       1         P. O. Box 1518       Roswell, New Nexico 88201       RECEIVED       1         Marines or well, Repert location clearly and in accordance with any state requirements."       1       1         At proposed prod. zone       SEP 3 1980       1       1         At proposed prod. zone       US. EFDIJUGICAL SURVEY       1       1         At proposed prod. zone       US. EFDIJUGICAL SURVEY       Sec. 34, T155, R27E         At proposed prod. zone       US. EFDIJUGICAL SURVEY       Sec. 34, T155, R27E         At proposed prod. zone       1       1       No. or Access Assessed         Sance       1       1       1       1       Sec. 34, T155, R27E         Approximately 10       miles east of Lake Arthur, New Mexico       Sec. 34, T155, R27E       Sec. 34, T155, R27E         Distance recover set assessed       1       1       1       Sec. 34, T155, R27E         Distance recover set assessed       1       1000       1       Sec. 34, T155, R27E         Distance recover set assessed       1       1000       1       Sec. 34, T155, R27E         Distance recover set assessed       1       1000       1       Sec. 34, T155, R27E         Distance recover set assessed set assessed       1							
P. O. Box 1518 Roswell, New Mexico 88201 References () 10. Piezo AND Provide on windows and the surface of the							
1. in ATION OF WELL (Report location closing and in secondance with any State requirement.")       Indesignated         A Hondrace       SEP 3 1980         A Hondrace       SEP 3 1980         A Hondrace       I. S. FEULUGICAL SURVEY         Same       I. S. FEULUGICAL SURVEY         A Hondrace is Miles AND DIRECTOR FROM MEANEST TOWN OR POW OFFICE AFTER AND MEXICO       Sec. 34, T155, R27E         A Hondrace is Miles AND DIRECTOR FROM MEANEST TOWN OR POW OFFICE AFTER AND MEXICO       Sec. 34, T155, R27E         A Hondrace is Miles AND DIRECTOR FROM MEANEST TOWN OR POW OFFICE AFTER AND MEXICO       Sec. 34, T155, R27E         I I MARKET AND DIRECTOR FROM MEANEST TOWN OR POW OFFICE AFTER AND MEXICO       Sec. 34, T155, R27E         I I MARKET AND DIRECTORS FROM MEANEST TOWN OR POW OFFICE AFTER AND MEXICO       Sec. 34, T155, R27E         I I MARKET AND DIRECTORS FROM MEANEST TOWN OR POW OF ATTER IN HARKET       II. MEXET         I I MARKET AND DIRECTORS FROM MEANEST TOWN OF AFTER INFORMATION OF ATTER INFORMATION OF A AT				DECEN		10. FIELD AND POOL. O	R WILDCAT
All surface       SEP 3 1980       I. S. GEULUGICAL SURVEY       Sec. 7, n. M. OB BES.         All proposed prod. zone       L.S. GEULUGICAL SURVEY       Sec. 34, T155, R27E         Same       Sec. 34, T155, R27E         Approximately 10 miles east of Lake Arthur, New ANALY MENO       Sec. 34, T155, R27E         Is more set and upponent.       660'       16.00 or ACRES IN LEASE IN THE SEC.         Is more set and upponent.       660'       1800         Is more set and upponent.       660'       100'         Is	P. 0. Box 151	8 Roswell, Net	in accordance with any S	state requirements.*)	A-A-	- [ <sup>**</sup>	
At proposed prod. 2008 Same Same Approximately 10 miles east of Lake Arthur, MESA AND DIRECTOR FROM NEAREST TOWN OF POST OFFICE AREA OF ACTIVE MESA AND DIRECTOR FROM SEAREST TOWN OF POST OFFICE AREA OF ACTIVE MESA AND DIRECTOR FROM SEAREST TOWN OF POST OFFICE AREA OF ACTIVE MESA AND DIRECTOR FROM SEAREST TOWN OF POST OFFICE AREA OF ACTIVE MESA AND DIRECTOR FROM SEAREST TO MEAN SEARCH TO THE WEEL TO THE WEEL TO THE WEEL TO MEAN SEARCH THE POOT SEARCH THE POOT SEARCH TO MEAN SEARCH TO MEAN SEARCH TO MEAN SEARCH THE POOT SEARCH TO MEAN SEARCH THE POOT SEARCH TO MEAN SEARCH TO MEAN SEARCH TO MEAN SEARCH THE POOT SEARCH THE P	At surface		in accordance of a may -			11. SEC., T., R., M., OR 1	BLK.
Same H4 DEFENCE IN MILES AND DIRECTOR FROM NEAREST TOWN OR FORT OWN OR FORT OWN AND AND THE SEC. 5, 1123, 1271, Approximately 10 miles east of Lake Arthur, NEW AND				SEP 31	980	AND SURVEY OR AR	EA
14. LINERANCE IS MILES AND DIRECTIONS FROM PRAREST TOWS OF FORT OFFICE ADDESIG.       12. LINES AND DIRECTIONS FROM PRAREST TOWS OF FORT OFFICE ADDESIG.       12. LINES AND DIRECTIONS FROM PRAREST TOWS OF FORT OFFICE ADDESIG.       12. LINES AND DIRECTIONS FROM PRAREST.       13. NAME         15. DISTANCE FROM PRODUNDED LOCATIONS       660'       16. NO. OF ACRES IN LARSE       17. NO. OF ACRES ANSIGNED       10. NEW MERICE         16. DISTANCE FROM PRODUNDED LOCATIONS       660'       16. NO. OF ACRES IN LARSE       17. NO. OF ACRES ANSIGNED       320         17. DISTANCE FROM PRODUNDED LOCATIONS       19. FROMOSED DEFTH       9,100'       20. ROTARY OF CREET OWNS       320         18. DISTANCE FROM PRODUND LOCATIONS       19. FROMOSED DEFTH       9,100'       Rotary       20. ROTARY OF CREET OWNS         21. ELYATIONS (Show whether DP. RT. GR. dec.)       3518.2 GR       SIZE OF HOLE	â	6	1	LS. REDEDBICAL	SHRVEY		
10. Interview To Statisty T       660'       1600       1600       320         10. Interview To Statisty T       10. Interview T       320       20. Rotary of CABLE Tools         11. Interview To Statisty T       10. Interview T       9,100'       20. Rotary of CABLE Tools         13. Interview To Statesty T       Interview T       9,100'       Rotary       Rotary         21. Elevations (Show whether DF, RT, GR, etc.)       3518.2       GR       22. APPROS. DATE WORK WILL START*         23. State of Holz       Size of Holz       Size of Casing And Casing And Camering PROGRAM       Setting Operating Processor         Size of Holz       Size of Casing And Casing And Casing And Cases TOC"       Setting Operating Operating Processor       Casing Operating Operating Operating Processor         11. 1       8 5/8"       24#       1700'       200 Sx Class "C" Circulate         11"       8 5/8"       24#       1700'       200 Sx Class "C"         11"       8 5/8"       24#       1700'       200 Sx Class "C"         10' - 400'       Spud mud with Magcobar gel and line. If scepage is noted, add       10st circulation material. If circulation is lost, dry drill to 400' and set surface casing.         400' - 5,200'       Fresh water and native mud. Mud wt. 8.4#, Vis. 30-32, WL no control.       5,200' - 8,000'       Niggogel and oil type drilling fluid. Hud wt		ND DIRECTION FROM NEAD			MEXICO	-	
Bill Detries TO SERREST PROPERTY OF LEASE LINE, F1       660'       1800       320         CALBO TO REASE LINE, F1       FT. (A BAY)       9,100'       20. ROTARY OR CABLE TOOLS ROTARY         TO SAMPS TO WELL DEATION* TO SAMPS TO WELL DEAT.       None       9,100'       20. ROTARY OR CABLE TOOLS         TO SAMPS TO WELL DEAT.       None       9,100'       Rotary       Rotary         21. ELEVATIONS (Show whether DF, RT, GR, etc.)       3518.2       GR       22. APPROS. DATE WORK WILL START*         3518.2       GR       PROPOSED CASING AND CEMENTING PROGRAM       SET OF HOLE       SET OF HOLE       200 SX Class "IC"         SIZE OF HOLE       SIZE OF CASING       WEIGHT PER FOOT       SETTING DEPTH       QUANTY OF CEMENT         SIZE OF HOLE       SIZE OF HOLE       SIZE OF CASING       WEIGHT PER FOOT       SETTING DEPTH       QUANTY OF CEMENT         SIZE OF HOLE       SIZE OF HOLE       SIZE OF HOLE       SIZE OF CASING       WEIGHT PER FOOT       SETING DEPTH       QUANTY OF CEMENT         SIZE OF HOLE       SIZE OF HOLE       SIZE OF CASING       WEIGHT PER FOOT       SETING DEPTH       QUANTY OF CEMENT         SIZE OF HOLE       SIZE OF CASING       WEIGHT PER FOOT       SETING DEPTH       QUANTY OF CEMENT         SIZE OF HOLE       SIZE OF CASING       WEIGHT PER FOOT	Approximately	/ 10 miles east	of Lake Arthur	, "New Mexico			New Mexico
This to loared drig unit line, if any is the provided for th	LOCATION TO NEAREST					THIS WELL	
None       9,100'       Rotary         22. AFPROX. DATE WORK WILL STAFT       Sept. 10, 1980         23518.2 GR       22. AFPROX. DATE WORK WILL STAFT         3518.2 GR       PROPOSED CASING AND CEMENTING PROGRAM         Size of HoLe       Size of CASING         Number of the size of CASING       WEBGUT PER FOOT         Size of HoLe       Size of CASING         Number of the size of CASING       WEBGUT PER FOOT         Size of HoLe       Size of CASING         WEBGUT PER FOOT       Setting DEFTH         9,100'       GOO'Sx Class "C" Circulate         17       1/2"         17       1/2"         17       1/2"         10'       41/2"         10.5, 11.6#       9100'         500 Sx Class "C"         Nud Program:       0' - 400'         0' - 400'       Spud mud with Magcobar gel and line. If scepage is noted, add         10st circulation material. If circulation is lost, dry drill to         400' and set surface casing.         400' - 5,200'       Fresh water and native mud. Hud wt. 8.4#, Vis. 30-32, WL no control         5,200'       Fresh water, low solids spersene mud. System with Magcogel and Magc         6,000' - 9,100'       Fresh water, low solids spersene mud system with Magcogel and Magc	(Also to nearest drig	. unit line, if any)					
21. EEXATIONS (Show whether DF, RT, GR, etc.)       22. APPROX. DATE WORK WILL START*         3518.2 GR       PROPOSED CASING AND CEMENTING PROGRAM         SIZE OF HOLE       SIZE OF CASING       WEIGHT PROFONT       SETTING DEPTH       QUANTITY OF CEMENT         17       1/2"       12       3/4"       34#       400'       400 SX Class "C" Circulate         11"       8       5/8"       24#       1700'       200 SX Class "H"       7         7       7/8"       4       1/2"       10.5, 11.6#       9100'       500 SX Class "C"       7         Nud Program:       0' -       400' spud mud with Magcobar gel and line. If scepage is noted, add       10st circulation material. If circulation is lost, dry drill to 400' and set surface casing.       400' = 5,200' Fresh water and native mud. Hud wt. 8.4#, Vis. 30-32, WL no contration 5,200' = 8,000' Magcogel and oil type drilling fluid. Hud wt. 8.5# = 8.8#, Vis. 30-32, 3.4% oil, WL no control.         8,000' = 9,100' Fresh water, low solids spersene mud system with Magcogel and Mage CMC. Mud wt. 9.0-9.5#, Vis. 40-45, ML 10 or below, Ph. 9-9.5. Circulate portion of reserve pit when mudding up at 8,000'.         30P Program:       At 1700', install and test to 3000#, pipe rams, blind rams (middle) bag-type preventer and choke manifold. BOP accumulator volume will be suffic to operate the bag preventer and blind rams with a snap-action through ticlose, open close sequence.	TO NEAREST WELL, DI	ULLING, COMPLETED,	T				
3518.2 GR       Sept. 10, 1980         Sept. 10, 1980         Size of HOLE       SEE OF CASING       SETING DEPTH       QCANTITY OF CEMENT         SIZE OF HOLE       SIZE OF CASING       WEIGHT PER FOOT       SETING DEPTH       QCANTITY OF CEMENT         SIZE OF HOLE       SIZE OF CASING       WEIGHT PER FOOT       SETING DEPTH       QCANTITY OF CEMENT         SIZE OF CASING       WEIGHT PER FOOT       SETING DEPTH       QCANTITY OF CEMENT         17 1/2"       12 3/4"       Add dot         17 7/8"       4 1/2"       10.5, 11.6#       9100'       SOO SX Class "C"         0' - 400'       Spud mud with Magcobar gel and line. If scepage is noted, add         0' - 400'       Spud mud with Magcobar gel and line. If scepage is noted, add         0' - 400'       Spud mud with Magcobar gel and line. If scepage is noted, add         0' - 400'       Spud mud with Magcobar gel and line. If scepage is noted, add         0' - 400'       Spud mud with Magcobar gel and line. If scepage is noted, add </td <td></td> <td></td> <td></td> <td>,100</td> <td></td> <td></td> <td>DRK WILL START*</td>				,100			DRK WILL START*
PROPOSED CASING AND CEMENTING PROGRAM         SIZE OF HOLE       SIZE OF CASING       WEIGHT PER FOOT       SETTING DEPTH       QCANTITY OF CEMENT         17       1/2"       12       3/4"       34#       400!       400 SX Class "C" Circulate         11"       8       5/8"       24#       1700'       200 SX Class "III"       7         7       7/8"       4       1/2"       10.5, 11.6#       9100'       500 SX Class "C"       7         Hud Program:       0' -       400'       Spud mud with Magcobar gel and line. If scepage is noted, add lost circulation material. If circulation is lost, dry drill to 400' and set surface casing.         400' =       5,200'       Fresh water and native mud. Hud wt. 8.4#, Vis. 30-32, WL no control.       8,000' Magcogel and oil type drilling fluid. Hud wt. 8.5# - 8.8#, Vis. 30-32, 3-4% oil, WL no control.       8,000' Spud wt. 9.0-9.5#, Vis. 40-45, WL 10 or below, Ph. 9-9.5.         600'       9,100'       Fresh water, low solids spersene mud system with Magcogel and Magco CMC. Mud wt. 9.0-9.5#, Vis. 40-45, WL 10 or below, Ph. 9-9.5.         50P       Program:       At 1700', install and test to 3000#, pipe rams, blind rams (middle) bag-type preventer and choke manifold. BOP accumulator volume will be suffic to operate the bag preventer and blind rams with a snap-action through the close, open close sequence.	_					Sept. 10,	1980
SIZE OF HOLESIZE OF CASINGWEIGHT PER FOOTSETTING DEFTHQUANTITY OF CEMENT171/2"123/4"34#400'400 Sx Class "C" Circulate11"85/8"24#1700'200 Sx Class "H"777/8"41/2"10.5, 11.6#9100'500 Sx Class "C"7Mud Program:0' -400'Spud mud with Magcobar gel and line. If Geepage is noted, add10st circulation material. If circulation is lost, dry drill to 400' and set surface casing.400' -5,200'Fresh water and native mud. Mud wt. 8.4#, Vis. 30-32, ML no control5,200' -8,000'Magcogel and oil type drilling fluid. Mud wt. 8.5# - 8.8#, Vis. 30-32, 3-4% oil, WL no control.8,000' -9,100'Fresh water, low solids spersene mud system with Magcogel and Mage CMC. Mud wt. 9.0-9.5#, Vis. 40-45, ML 10 or below, Ph. 9-9.5.Circulate portion of reserve pit when mudding up at 8,000'.500 Program: At 1700', install and test to 3000#, pipe rams, blind rams (middle) bag-type preventer and choke manifold. BOP accumulator volume will be suffic to operate the bag preventer and blind rams with a snap-action through the close, open close sequence.		I	PROPOSED CASING ANI	D CEMENTING PRO	OGRAM		
Note of foldSafe of foldSafe of foldAddityAddityAddity171/2"123/4"34#400'400 Sx Class "C" Circulate11"85/8"24#1700'200 Sx Class "H"77/8"41/2"10.5, 11.6#9100'500 Sx Class "C"Nud Program:0' -400' Spud mud with Magcobar gel and line. If scepage is noted, add0' -400' and set surface casing.400' -5,200' Fresh water and native mud. Hud wt. 8.4#, Vis. 30-32, WL no contra5,200' -8,000' Magcogel and oil type drilling fluid. Hud wt. 8.5# -8,000' -9,100' Fresh water, low solids spersene mud system with Magcogel and Magcogel and wat 9.0-9.5#, Vis. 40-45, WL 10 or below, Ph. 9-9.5.Circulate portion of reserve pit when mudding up at 8,000'.30P Program:At 1700', install and test to 3000#, pipe rams, blind rams (middle) bag-type preventer and choke manifold. BOP accumulator volume will be sufficient to operate the bag preventer and blind rams with a snap-action through the close, open close sequence.		OTTE OF CANING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEME	NT
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7741/2"10.5, 11.6#9100'500 Sx Class "C"Nud Program: 0' - 400'9100'9100'500 Sx Class "C"0' - 400'Spud mud with Magcobar gel and line. If scepage is noted, add lost circulation material. If circulation is lost, dry drill to 400' and set surface casing.400' - 5,200'Fresh water and native mud. Mud wt. 8.4#, Vis. 30-32, WL no contr 5,200' - 8,000'5,200' - 8,000'Magcogel and oil type drilling fluid. Hud wt. 8.5# - 8.8#, Vis. 30-32, 3-4% oil, WL no control.8,000' - 9,100'Fresh water, low solids spersene mud system with Magcogel and Magco CMC. Mud wt. 9.0-9.5#, Vis. 40-45, WL 10 or below, Ph. 9-9.5. Circulate portion of reserve pit when mudding up at 8,000'.300'Program:At 1700', install and test to 3000#, pipe rams, blind rams (middle) bag- type preventer and choke manifold. BOP accumulator volume will be suffic to operate the bag preventer and blind rams with a snap-action through the close, open close sequence.				1700'			
<ul> <li>0' - 400' Spud mud with Magcobar gel and line. If geepage is noted, add lost circulation material. If circulation is lost, dry drill to 400' and set surface casing.</li> <li>400' - 5,200' Fresh water and native mud. Mud wt. 8.4#, Vis. 30-32, ML no control 5,200' - 8,000' Magcogel and oil type drilling fluid. Mud wt. 8.5# - 8.8#, Vis. 30-32, 3-4% oil, ML no control.</li> <li>8,000' - 9,100' Fresh water, low solids spersene mud system with Magcogel and Magcogel and wt. 9.0-9.5#, Vis. 40-45, ML 10 or below, Ph. 9-9.5. Circulate portion of reserve pit when mudding up at 8,000'.</li> <li>30P Program: At 1700', install and test to 3000#, pipe rams, blind rams (middle) bagtype preventer and choke manifold. BOP accumulator volume will be suffice to operate the bag preventer and blind rams with a snap-action through the close, open close sequence.</li> </ul>		4 1/2"	10.5, 11.6#	9100'			
<ul> <li>lost circulation material. If circulation is lost, dry driff to 400' and set surface casing.</li> <li>400' - 5,200' Fresh water and native mud. Mud wt. 8.4#, Vis. 30-32, ML no controstation 5,200' - 8,000' Magcogel and oil type drilling fluid. Mud wt. 8.5# - 8.8#, Vis. 30-32, 3-4% oil, WL no control.</li> <li>8,000' - 9,100' Fresh water, low solids spersene mud system with Magcogel and Magcometer and wt. 9.0-9.5#, Vis. 40-45, ML 10 or below, Ph. 9-9.5. Circulate portion of reserve pit when mudding up at 8,000'.</li> <li>30P Program: At 1700', install and test to 3000#, pipe rams, blind rams (middle) bagty to operate the bag preventer and blind rams with a snap-action through the close, open close sequence.</li> </ul>			1 111 111 alia	- all and li	no TE	econade is noté	d add J
<ul> <li>400' and set surface casing.</li> <li>400' - 5,200' Fresh water and native mud. Mud wt. 8.4#, Vis. 30-32, ML no contrast, 5,200' - 8,000' Magcogel and oil type drilling fluid. End wt. 8.5# - 8.8#, Vis. 30-32, 3-4% oil, WL no control.</li> <li>8,000' - 9,100' Fresh water, low solids spersene mud system with Magcogel and Magcoments (MC. Mud wt. 9.0-9.5#, Vis. 40-45, ML 10 or below, Ph. 9-9.5.) Circulate portion of reserve pit when mudding up at 8,000'.</li> <li>30P Program: At 1700', install and test to 3000#, pipe rams, blind rams (middle) bag-type preventer and choke manifold. BOP accumulator volume will be sufficient to operate the bag preventer and blind rams with a snap-action through the close, open close sequence.</li> </ul>	0' -	400' Spud m	ud with Magcoba	rial. If ci	rculation	n is lost. dry	drill to
<ul> <li>400' - 5,200' Fresh water and native mud. Mud wt. 8.4#, Vis. 30-32, ML no contrast, 5,200' - 8,000' Magcogel and oil type drilling fluid. End wt. 8.5# - 8.8#, Vis. 30-32, 3-4% oil, ML no control.</li> <li>8,000' - 9,100' Fresh water, low solids spersene mud system with Magcogel and Mago CMC. Mud wt. 9.0-9.5#, Vis. 40-45, ML 10 or below, Ph. 9-9.5. Circulate portion of reserve pit when mudding up at 8,000'.</li> <li>30P Program: At 1700', install and test to 3000#, pipe rams, blind rams (middle) bag-type preventer and choke manifold. BOP accumulator volume will be sufficient to operate the bag preventer and blind rams with a snap-action through the close, open close sequence.</li> </ul>						, , ,	
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Cos soles are not dedicated.		close, open c	lose sequence.				
ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowou preventer program, if any.	zone. If proposal is to	e not dedicated PROPOSED PROGRAM : If drill or deepen direction	•	plug back, give data on subsurface locatio	on present promised and measured	oductive zone and propos red and true vertical dept	ed new productive hs. Give blowout
24. Agent for:	· · · · · · · · · · · · · · · · · · ·	······································		ent for:			
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(This space for Federal or State office use)							<u> </u>
APPROVAL DATE				APPROVAL DATE			
PERMIT NO APPROVAL DATE							
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## N.M.O.C.D. COPY United States Department of the Interior

GEOLOGICAL SURVEY SPECIAL APPROVAL STIPULATIONS RECEIVED

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN:

SEP 1 2 1980 O. C. D. ARTESIA, OFFICE

RAD + STEVENS, Tac IOLES TES WELL DESIGNATION TOLES FED NO. 1 Sec # Y TISTS, R29E CHAVES NM-011546A

THE SPECIAL STIPULATIONS CHECK MARKED BELOW ARE APPLICABLE TO THE ABOVE-DESCRIBED WELL AND APPROVAL OF THIS APPLICATION TO DRILL IS CONDITIONED JPON COMPLIANCE WITH SUCH STIPULATIONS. EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE APPEAL TO THESE SPECIAL STIPULATIONS PURBUANT TO TITLE 30 CFR 290.

X	Α.	<b>L23</b> /usurface casing should be set in the Rustler Anhydrite formation and cement circulated to the surface. If surface casing is set at a lesser depth, the casing must be demented from the casing shoe to the surface or demented to the surface through a stage tool set at least 50 feet below the top of the Rustler after dementing around the shoe with sufficient dement to fill to the base of the salt section.
X	Β.	Before drilling below the Staticasing, the blowout preventer assembly will consist of a minimum of one annular type and two ram type preventers.
	С.	Casing protectors will be run on drill pipe while drilling through the casing. Protectors will be of sufficient number and of sufficient outside diameter to protect the casing.
17	D.	Minimum required fill of cement behind the casing is to
X	Ε.	After setting the <b>S</b> <sup>*</sup> / <sub>8</sub> casing string and before drilling into the <b>WOLFCHAAP</b> formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report.
X	F.	Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before drilling into the <b>WOLFCAMP</b> formation and used until production casing is run and cemented. Monitoring equipment shall consist of the following:
		<ol> <li>A recording pit level indicator to determine pit volume gains and losses.</li> </ol>
		(2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
		(3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.
X	G.	All pits containing texic liquids will be fenced and covered with a fine mesh netting, if necessary for the protection of livestock on wildlife.
X	н.	Above ground permanent structures and equipment shall be painted in accordance with the Painting Guidelines. The paint color is to simulate:

[\_\_\_\_\_ Sandstone Brown, Fed. Std. 595-20318 or 30318



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A kelly cock will be installed and maintained in operable condition.

O. C. D.

ARTESIA, OFFICE

The ARTESIA Sub-District for a representative to witness:	Office	is	to	be	notified	in	sufficient	time
for a representative to witness:								
(a) Spudding								

(5) Cementing casing

 inch
 inch
 inch

(c) BOP tests

A Communitization Agreement covering the acreage dedicated to the well must be filed for approval with the U.S. Geological Survey, P.D. Box 26124, Albuquerque, New Mexico (87125). The effective date of the agreement must be prior to any sales.

1. A Gamma Ray-Compensated Neutron log is required from the base of the salt section to the surface with cable speed not to exceed 30 feet per minute.

M. At least one working day prior to constructing the well pad, access roads and/or related facilities, the operator or dirt contractor shall notify the authorized officer (Bureau of Land Management, <u>**POSWKLL**</u> area). He shall also notify the Authorized Officer within two working days after completion of earth-moving activities.

N. All access roads constructed in conjunction with the drilling permit (APD) will be limited to a <u>12</u> foot wide driving surface, excluding turnarounds. Surface disturbance associated with construction and/or use of the road will be limited to <u>20</u> feet in width. If well is a producer, all roads will be adequately drained to control runoff and soil erosion. Drainage facilities may include ditches, water bars, culverts ard/or any other measures deemed necessary by the authorized officer of the BLM. The following is a general cuide for the spacing of water bars:

Slope

less than	2	 									200	ft.
5 to 4									•	•	100	1.4.1
1 +0 5									•	•	15	16.
more than Other spec					•	•	-	•	•	•	55	16.



Any permanent pit containing waste oil must be fenced and covered with mesh wire.

#### APPLICATION FOR DRILLING

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READ & STEVENS, INC. Toles Federal, Well No. 1 660' FSL & 1980' FEL, Sec 34, T15S, R27E Chaves County, New Mexico Lease No.: NM 0115465A (Exploratory Well) SEP 1 2 1980 O. C. D. Artesia, Office

:

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Read & Stevens, Inc. submits the following items of pertinent information in accordance with USGS requirements:

- 1. The geologic surface formation is Permian with quaternary alluvium and other surficial deposits.
- 2. The estimated tops of geologic markers are as follows:

Queen	1077'	Cisco	7352 <b>'</b>
San Andres	16 <b>73'</b>	Canyon	7667'
Glorieta	3228'	Strawn	8163'
Tubb	4541'	Atoka	8580'
Abo	5345	Chester	88501
Wolfcamp	65251	Total Depth	9100 <b>'</b>

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

Water:

Oil: San Andres at approximately 1680'.

- Gas: Atoka at approximately 8700'.
- 4. Proposed Casing Program: See Form 9-331C.
- 5. Pressure Control Equipment: See Form 9-331C.
- 6. Mud Program: See Form 9-331C.
- 7. Auxiliary Equipment: Blowout preventer, gas detector, helly cock, pit level monitor, flow sensors and stabbing value.
- 0. Testing, Logging and Coring Program:

Drill Stem Tests:One possible in each of the following:<br/>Strawn8163'-8263<br/>8580'-8680Logging:Gamma Ray:Surface to T.D.<br/>Tht. Csq. to T.D.<br/>Dual Ind. LaterologDrill:<br/>Dual Ind. LaterologInt. Csq. to T.D.<br/>Int. Csg. to T. D.

Coring: None.

- 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.
- 16. Anticipated starting date: September 10, 1980. Anticipated completion of drilling operations: Aprox. 35 days.

MULTI-. OINT SURFACE USE AND OPERATIONS . LAN

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ARTESIA, OFFICE

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READ & STEVENS, INC. RECEIVED. C. D. Toles Federal, Well No. 1 660' FSL & 1980' FEL, Sec 34, T15S, R27E Chaves County, New Mexico Lease No.: NM 0115465A U.S. GEOLOGICAL SURVEY (Exploratory 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 after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operations.

- EXISTING ROADS: 1.
  - A. Exhibit "A" is a portion of a New Mexico State Highway map showing the well as staked. The well is approximately 10 miles east of Lake Arthur, New Mexico. A portion of the 10 miles is paved and the remainder is a well maintained gravel county road.
  - B. Directions: Travel south from Roswell on Alternate Highway 285 to Lake Arthur, New Mexico. Turn left (east) onto county road 507. There is a white building on the right of the highway at the turnoff, with a "Worms for Sale" sign. Road 507 is paved for 1.5 miles then is a well maintained gravel road. Continue east on the dirt portion for .5 mile turning Southeast for a mile crossing the Pecos River. Turn left (east) after crossing the bridge traveling easterly approximately 5 miles coming to a junction in the road. Turn southeast .8 mile passing the Merritt ranch house on the left. The planned access road will start at this point traveling east of the existing access road for approximately 1,500'.
- PLANNED ACCESS ROAD: 2.
  - A. Length and Width: The new access road will be 12 feet wide (20' ROW) and approximately 1,500' long, from the point of origin from the existing access road to the southwest corner of the drilling pad. The new access road is labeled and color coded red on Exhibit "A" and "B". The road has been staked and flagged.
  - B. Construction: The new road will be constructed by grading and topping with compacted caliche. The surface will be properly drained.
  - C. Turnouts; There will be one turnout, which will increase the road width to 20 feet for passing.
  - D. Culverts: None required.
  - E. Cuts and Fills: None required.
  - F. Gates, Cattleguards: One cattleguard is required several humdred feet east of the point of origin where the existing ranch fence will be cut and crossed.

Read & Stevens, I: Toles Federal Well No. 1 Page 2

RECEIVED SEP 1 2 1980

3. LOCATION OF EXISTING WELLS:

O. C. D. ARTESIA, OFFICE

- A. Existing wells within a one to two mile radius are shown on Exhibit "B" and "C".
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
  - A. There are no production facilities on this lease at the present time.
  - B. If the well proves to be commercial, the necessary production facilities, gas separation-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. The water will be obtained from private or commercial sources and will be transported over the existing and proposed access roads.
- 6. SOURCE OF CONSTRUCTION MATERIALS:
  - A. Caliche for surfacing the road and the well site pad will be obtained from an existing pit located on Federal surface in the SW & Sec. 12 T16S, R27E. This is on top of the Diamond Mound. Top soil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except for those necessary for actual grading and leveling of the drill site and access road.
- 7. METHODS OF HANDLING WASTE DISPOSAL:

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- 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 material to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the USGS for approval.
- E. Oil produced during operations will be stored in tanks until sold.
  - F. Current laws and regulation pertaining to the disposal of human waste will be complied with.
  - G. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.
  - H. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

Read & Stevens, L. . Toles Federal Well No. 1 Page 3 RECEIVED

SEP 1 2 1980

8. ANCILLARY FACILITIES:

O. C. D. ARTESIA, OFFICE

- A. Rone required.
- 9. WELLSITE 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 Clanged.
  - B. Mat Size: 225' X 210'.
  - C. Cut and Fill: The location will require a 1 2' cut on the east and will be filled to the west.
  - D. The surface will be topped with compacted caliche and the reserve pit will be plastic lined.
- 10. PLAMS FOR RESTORATION OF THE SURFACE:
  - A. After completion of drilling and/or completion operations all equipment and other materila not needed for operations will be removed. Pits will be filled and location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing a condition as possible.
  - B. Any unguarded pits containing fluids will be fenced until they are filled.
  - C. This location is on private surface and if the proposed well is nonproductive an agreement has been made with the surface owner that all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be followed and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

#### 11. OTHER INFORMATION:

- A. Topography: The land surface in the vicinity of the wellsite is relatively level with a gentle slope to the west from an elevation of 3518.2' at about 10' in 400'.
- B. Soil: The topsoil at the wellsite is a loamy clay underlain with gypsum with an occasional outcrop of gypsum.
- C. Flora and Fauna: The vegetative cover consists of very sparse miscellaneous grasses, including Tobosa, Grama, Three-on and also Mesquite, yucca and cactus and other miscellaneous desert flowers and weeds. The only wildlife observed were lizards and jackrabbits, but it is likely that other typical semi-arid desert wildlife inhabit the area, which is used for cattle grazing.
- D. Ponds and Streams: There are no rivers, streams, lakes or natural ponds in the area, except for a small intermittent pond shown as White Lake in Sec. 35, T15S, R27 E, on Exhibit "B".

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Read & Stevens, 1 . Toles Federal Well No. 1 Page 4

SEP 1 2 1980

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O. C. D. ARTENAL OFFICE

- 11. OTHER INFORMATION cont....:
  - E. Residences and other Structures: The Merritt ranch house is approximately 2,000' Northwest of the wellsite. There are no other structures or windmills in the immediate vicinity of the well site.
  - F. Land Use: Cattle grazing.
  - G. Surface Ownership: The proposed access road and well site is on private surface with Federal minerals. An agreement has been made with the surface owner to cross his land and to rehabilitate and return the surface to its natural state in the event the well proves non-productive.
  - H. There is no evidence of any archaeological, historical or cultural sites in the area. An archaeological survey has been conducted by New Mexico Archaeological Services, Inc., P. O. Box 1341, Carlsbad, New Mexico 88220, and their report has been 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:

Dan Lough		Joe Handley	
830 W. Gore		P. O. Box 1135	
Lovington, New	Mexico 88260	Lovington, New	
Office Phone:	(505) 396-5391	Office Phone:	
Home Phone:	(505) 396 <b>-</b> 4371	Home Phone:	(505) 396-5449

13. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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 Read & Stevens, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

September 2, 1980

George R. Śmith Agent for Read & Stevens, Inc.





EXHIBIT "D" READ & STEVENS, INC. BLOW OUT PREVENTER SPEC. Toles Federal Well No. 1 Chaves County, New Mexico

10/15/24

5505 V 30

WEK (ILLING CO., INC. - RIG 2 EQUIPMENT DESCRIPTION

027 12 1980

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Bell nipple. Hydril bag type preventer Ram type pressure operated blowout preventer with blind rams. Flanged spool with one 3-inch and one 2-inch (minimum) outlet. 2-inch (minimum) flanged plug or gate valve. 2-inch by 2-inch by 2-inch (minimum) flanged tee. 3-inch gate valve. Ram type pressure operated blowout preventer with pipe rams. Flanged type casing head with one side outlet. 2-inch threaded (or flanged) plug or gate valve. Flanged on 5000# WP, threaded on 3000# WP or less. 3-inch flanged spacer spool. 3-inch by 2-inch by 2-inch by 2-inch flanged cross. 2-inch flanged plug or gate valve. 2-inch flanged adjustable choke. 2-inch threaded flange. 2-inch XXH nipple. 2-inch forged steel 90°Ell. Cameron (or equal.) threaded pressure gage. Threaded flange. 2-inch flanged tee. 2-inch flanged plug or gate valve. 21-inch pipe, 300' to pit, anchored. 2<sup>1</sup>/<sub>2</sub>-inch SE valve. 22-inch line to steel pit or separator.

### TES:

Items 3, 4 and 8 may be replaced with double ram type preventer with side outlets between the rams.

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



MAINTAIN 3' SPACING BETWEEN DIL DRUMS, FUEL TANKS, WATER TANK AND CHANGE HOUSE -

PUT CASING TOOLS ON NORTH SIDE OF RIG

EXHIBIT "E" READ & STEVENS, INC. RIG LAYOUT Toles Federal Well No. 1